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STATISTICS OF HAWAIIAN AGRICULTURE
1985

Prepared by
HAWAII AGRICULTURAL STATISTICS SERVICE
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A Cooperative Function of

Hawaii
Department of Agriculture
Marketing & Consumer Services Division

United States
Department of Agriculture
National Agricultural Statistics Service

EXECUTIVE CHAMBERS
HONOLULU

GEORGE R. ARIYOSHI
GOVERNOR

MESSAGE FROM GOVERNOR GEORGE R. ARIYOSHI

It has been a special privilege to serve agriculture in Hawaii during these past years. We have enjoyed exceptional growth in diversified agriculture, while the production of sugarcane and pineapple has remained relatively stable in spite of increased world competition and escalating costs of production. The agricultural industry deserves our continued support and appreciation for its efforts and achievements.

The goals of increased agricultural self-sufficiency and greater independence are still essential--and will be realized. This administration is committed to providing assistance through the Department of Agriculture and the Governor's Agricultural Coordinating Committee as the components of the agricultural industry define their respective goals and set priorities for attaining them.

George R. Ariyoshi

GEORGE R. ARIYOSHI
GOVERNOR

1959

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Hawaii's agricultural scene for 1985 had its share of problems and controversies, but the leadership emerged stronger and more determined than ever to overcome adversity and continue making a major contribution to the State's economy. The total value of diversified agriculture almost reached $215 million in farm value, a new record high. Also reaching record high's in farm value were the top three diversified commodities: flowers and nursery products, macadamia nuts and vegetables-melons.

The continued growth in flowers and nursery products has elevated it to almost one-fifth of the value of all diversified commodities. The major segments of this industry are featured in this year's "Statistics of Hawaiian Agriculture." We are proud of their success story and are pleased that the Department of Agriculture has been able to participate with them.

"Statistics of Hawaiian Agriculture" is our annual summary publication which is one of an extensive schedule of over 180 statistical reports issued by the Hawaii Agricultural Statistics Service. This statistical program is a joint effort of the Hawaii Department of Agriculture and the National Agricultural Statistics Service, U. S. Department of Agriculture. Through this cooperative arrangement, we are able to provide a comprehensive program of quality statistics without duplication of resources.

Jack K. Suwa

Jack K. Suwa
Chairman, Board of Agriculture

"Support Hawaiian Agricultural Products"

Hawaii
Department of Agriculture
Marketing & Consumer Services Division

United States
Department of Agriculture
National Agricultural Statistics Service

HAWAII
AGRICULTURAL STATISTICS SERVICE
P. O. Box 22159
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We are very grateful to the many farmers and ranchers throughout Hawaii who have participated in numerous agricultural surveys which provide the basis for the information in this publication. Their responses are supplemented by information from grower organizations and agribusiness firms. Several other State and Federal agencies also contributed toward the development of these statistics. This cooperation from the agricultural sector is largely responsible for the success of our statewide estimating program and is greatly appreciated.

Special recognition for the preparation of this publication is given to Joyce Jay, editor, Sandy Fukunaga, typist and Don Martin, who prepared the feature presentation on flowers and nursery products.

The entire Hawaii Agricultural Statistics Service staff has contributed all year to the generation and publication of the individual reports which are summarized in this annual publication. It is a pleasure to be associated with this unit of dedicated employees:

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Virtually all reports published by this office are free to agricultural producers and other contributors. A nominal fee is charged others for printing and mailing costs. Please see page 99 for a list of reports, the frequency of their publication and our office street and mailing addresses.

Our name has changed to coincide with the new name of our parent agency, the National Agricultural Statistics Service, U. S. Department of Agriculture, previously known as the Statistical Reporting Service. The new name more closely represents our nationwide mission of developing and publishing agricultural information.

Sincerely,

Aubrey R. Davis

Aubrey R. Davis
Statistician in Charge

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HAWAII AGRICULTURE 1985

Record returns in diversified agriculture were not enough to offset losses in sugar as the total farm value of Hawaii's agriculture fell 4 percent to $527.9 million. Agriculture's contribution to Hawaii's economy, measured by including the processed value of pineapple, sugarcane, and government payments, totaled $779.0 million, down 8 percent from 1984.

The lowest sugar price in four years negated an increase in sugar yields and resulted in a 13 percent drop in sugar revenues. Industry officials, however, are optimistic about the future with the passage of the Farm Security Act of 1985. The processed value of pineapple dropped from the record level set in 1984 due to cutbacks in canned fruit production. Fresh market sales continued to gain a greater share of total pineapple disposition in 1985.

Diversified agriculture had another record year with farm value totaling $214.9 million, up 5 percent from 1984. Nearly every sector of Hawaii's livestock industry showed declines in farm value, but these were more than offset by record sales registered by macadamia nuts, flowers and nursery products, vegetables and melons, taro, and field crops.

SUMMARY: Acreage in crop and total farm acreage, by islands, 1981-85

Year	Sugarcane	Pineapples [1]	Vegetables and melons [2]	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Miscel-laneous crops [3]	Total farm acreage [4]
	1,000 acres							
STATE [5]								
1981 . .	216.1	41.0	4.2	5.4	1.8	13.8	9.0	1,965
1982 . .	204.8	36.0	4.1	5.6	2.0	15.0	11.3	1,960
1983 . .	194.3	36.0	5.1	6.1	2.0	15.8	12.2	1,960
1984 . .	188.4	35.0	5.3	6.5	2.0	16.9	12.0	1,950
1985 . .	**187.9**	**34.5**	**5.4**	**6.5**	**2.1**	**20.0**	**8.6**	**1,950**
HAWAII								
1981 . .	90.5		1.5	3.7	1.8	12.6	1.1	1,150
1982 . .	83.2		1.5	3.9	2.0	13.8	1.0	1,145
1983 . .	75.6		1.9	4.4	2.0	14.5	1.1	1,145
1984 . .	70.9		2.0	4.6	2.0	15.5	1.7	1,140
1985 . .	**69.9**		**2.0**	**4.8**	**2.1**	**18.2**	**3.2**	**1,140**
KAUAI/NIIHAU								
1981 . .	45.8	*	.1	.8			.6	275
1982 . .	44.9	*	.1	.7			.7	275
1983 . .	44.1	*	.1	.7			.7	275
1984 . .	43.9	*	.1	.9			.7	275
1985 . .	**43.7**	*	**.1**	**.9**			**.7**	**275**
MAUI/MOLOKAI/LANAI								
1981 . .	47.1	30.0	1.4	.1			4.9	420
1982 . .	47.5	24.5	1.4	.2			8.9	420
1983 . .	47.4	24.5	1.8	.2			8.9	420
1984 . .	47.2	23.2	1.8	.2			9.0	420
1985 . .	**47.2**	**23.0**	**1.9**	**.1**			**4.1**	**420**
OAHU								
1981 . .	32.7	11.0	1.2	.8			2.4	125
1982 . .	29.2	11.5	1.1	.8			.7	125
1983 . .	27.2	11.5	1.3	.8			1.5	125
1984 . .	26.4	11.8	1.4	.8			.6	120
1985 . .	**27.1**	**11.5**	**1.4**	**.7**			**.6**	**120**

* = Less than 500 acres.

[1] Land used for pineapple.

[2] Harvested acreage.

[3] Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), and flowers, foliage and nursery products.

[4] Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.

[5] Sum of island estimates may not add to State total due to rounding.

[6] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Number of crop farms, by islands, 1981-85

Year	Sugar	Pineapples	Vegetables and melons	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
				STATE				
1981 . .	360	18	583	657	625	490	123	680
1982 . .	285	18	620	700	620	[1]550	127	650
1983 . .	230	18	683	724	610	600	155	680
1984 . .	185	18	677	800	615	605	137	670
1985 . .	**155**	**18**	**715**	**805**	**620**	**610**	**155**	**670**
				HAWAII				
1981 . .	349		216	392	625	485	40	330
1982 . .	274		241	424	620	[1]545	45	310
1983 . .	219		300	445	610	595	67	320
1984 . .	174		310	520	615	595	57	315
1985 . .	**144**		**340**	**535**	**620**	**600**	**72**	**305**
				KAUAI				
1981 . .	5	3	48	77		2	50	25
1982 . .	5	3	52	82		2	49	25
1983 . .	5	3	62	80		2	54	25
1984 . .	5	3	62	81		4	50	25
1985 . .	**5**	**3**	**60**	**80**		**4**	**48**	**30**
				MAUI/MOLOKAI/LANAI				
1981 . .	3	13	75	33		2	30	85
1982 . .	3	13	78	37		2	29	80
1983 . .	3	13	80	50		2	25	85
1984 . .	3	13	80	48		3	20	80
1985 . .	**3**	**13**	**75**	**45**		**3**	**23**	**85**
				OAHU				
1981 . .	3	2	244	155		1	3	240
1982 . .	3	2	249	157		1	4	235
1983 . .	3	2	241	149		1	9	250
1984 . .	3	2	225	151		3	10	250
1985 . .	**3**	**2**	**240**	**145**		**3**	**12**	**250**

---

[1] Revised.

SUMMARY: Number of livestock operations and total number of farms, by islands, 1981-85 [1]

Year	Cattle [2]	Hogs	Milk	Eggs	Broilers	Honey	Total (non-duplicated) [3]
				STATE			
1981 . .	900	650	80	55	10	28	4,400
1982 . .	1,000	650	90	55	10	30	4,500
1983 . .	950	650	90	55	9	27	4,500
1984 . .	850	650	90	55	8	25	4,600
1985 . .	**850**	**650**	**90**	**55**	**7**	**22**	**4,600**
				HAWAII			
1981 . .	425	70	30	23		3	2,550
1982 . .	490	75	39	24		6	2,600
1983 . .	450	85	39	26		6	2,600
1984 . .	395	85	40	25		6	2,650
1985 . .	**400**	**85**	**41**	**24**		**7**	**2,650**
				KAUAI/NIIHAU			
1981 . .	175	115	11	4	2	12	350
1982 . .	190	115	14	4	2	12	375
1983 . .	180	120	12	4	1	11	375
1984 . .	165	125	13	4	1	10	375
1985 . .	**165**	**120**	**13**	**4**	**1**	**8**	**375**
				MAUI/MOLOKAI/LANAI			
1981 . .	220	110	16	5		5	500
1982 . .	230	100	15	6		5	525
1983 . .	235	115	16	6		5	525
1984 . .	215	105	16	6		4	550
1985 . .	**205**	**110**	**16**	**7**		**4**	**550**
				OAHU			
1981 . .	80	355	23	23	8	8	1,000
1982 . .	90	360	22	21	8	7	1,000
1983 . .	85	330	23	19	8	5	1,000
1984 . .	75	335	21	20	7	5	1,025
1985 . .	**80**	**335**	**20**	**20**	**6**	**3**	**1,025**

---

[1] End of year.

[2] Includes beef, dairy, and dairy replacement operations.

[3] Based on farm definition of $1,000 or more of agricultural sales.

SUMMARY: Volume of crop marketings, by islands, 1981-85

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)	Macadamia nuts (in shell)	Taro
	1,000 tons		1,000 pounds				
				STATE[1]			
1981 . .	8,831	636	73,330	83,010	2,210	33,360	6,100
1982 . .	8,808	670	72,740	70,820	990	36,720	6,460
1983 . .	8,926	722	89,400	[2]78,640	2,800	36,420	5,440
1984 . .	3,454	600	87,350	99,430	1,750	37,700	6,310
1985 . .	**7,916**	**565**	**89,620**	**80,980**	**1,700**	**42,000**	**6,860**
				HAWAII			
1981 . .	3,507		32,040	64,650	2,210	33,240	450
1982 . .	3,780		34,510	[2]55,000	990	36,600	880
1983 . .	3,840		40,100	67,170	2,800	36,200	740
1984 . .	3,420		38,170	75,320	1,750	37,500	795
1985 . .	**2,686**		**37,130**	**64,030**	**1,700**	**41,400**	**1,010**
				KAUAI			
1981 . .	1,949	*	1,590	10,860		3	4,450
1982 . .	1,869	*	1,620	[2]8,150		3	4,360
1983 . .	1,667	*	2,040	5,000		3	3,450
1984 . .	1,599	*	1,890	16,450		3	4,350
1985 . .	**1,802**	*	**1,690**	**10,430**		3	**4,780**
				MAUI/MOLOKAI/LANAI			
1981 . .	2,038	466	[2]25,660	1,480		3	3
1982 . .	1,853	467	25,230	2,270		3	3
1983 . .	2,232	509	32,820	2,530		3	3
1984 . .	2,283	419	32,730	1,420		3	3
1985 . .	**2,208**	**358**	**35,590**	**1,260**		3	3
				OAHU			
1981 . .	1,337	170	[2]14,040	6,020		3	3
1982 . .	1,306	203	11,380	[2]5,400		3	3
1983 . .	1,187	213	14,440	[2]3,940		3	3
1984 . .	1,152	181	14,560	6,240		3	3
1985 . .	**1,220**	**207**	**15,210**	**5,260**		3	3

* = Less than 500 tons.

[1] Sum of island estimates may not add to State total due to rounding of State estimates to 1,000 hundredweight of some crops included in United States totals.

[2] Revised.

[3] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Volume of livestock marketings, by islands, 1981-85

Year	Beef (dressed weight) [1]	Pork (dressed weight)	Milk	Eggs	Broilers and chickens (ready-to-cook weight)	Honey
	1,000 pounds		Million pounds	Million	1,000 pounds	
STATE [2]						
1981 . .	28,666	8,708	147.9	221.3	9,046	875
1982 . .	29,048	8,557	106.4	202.2	8,571	920
1983 . .	31,985	7,693	143.7	197.3	8,947	1,305
1984 . .	32,116	7,878	146.0	209.7	8,102	1,089
1985 . .	**33,928**	**7,859**	**139.8**	**220.5**	**7,706**	**1,184**
HAWAII						
1981 . .	18,179	947	[3]	[3]	[3]	[3]
1982 . .	19,880	716	[3]	[3]	[3]	[3]
1983 . .	20,827	731	[3]	[3]	[3]	[3]
1984 . .	20,906	651	[3]	[3]	[3]	[3]
1985 . .	**21,824**	**700**	[3]	[3]	[3]	[3]
KAUAI/NIIHAU						
1981 . .	2,342	704	[3]	[3]	[3]	[3]
1982 . .	1,992	636	[3]	[3]	[3]	[3]
1983 . .	2,228	572	[3]	[3]	[3]	[3]
1984 . .	2,132	593	[3]	[3]	[3]	[3]
1985 . .	**2,118**	**689**	[3]	[3]	[3]	[3]
MAUI/MOLOKAI						
1981 . .	6,321	2,090	[3]	[3]	[3]	[3]
1982 . .	6,224	2,016	[3]	[3]	[3]	[3]
1983 . .	7,115	1,802	[3]	[3]	[3]	[3]
1984 . .	7,686	1,819	[3]	[3]	[3]	[3]
1985 . .	**8,447**	**1,803**	[3]	[3]	[3]	[3]
			[3]			
OAHU						
1981 . .	1,824	4,967	116.6	192.7	8,684	[3]
1982 . .	952	5,189	75.6	174.1	8,214	[3]
1983 . .	1,815	4,588	112.2	165.1	[3]	[3]
1984 . .	1,392	4,815	112.2	177.7	[3]	[3]
1985 . .	**1,539**	**4,667**	**107.0**	**186.4**	[3]	[3]

[1] Includes slaughter cattle but excludes calves shipped out-of-State.

[2] State totals may not add due to rounding.

[3] Island data not shown separately to avoid disicosure of individual operations but combined and included in the State total.

SUMMARY: Value of crop sales, by islands, 1981-85

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)
			1,000 dollars		
			STATE		
1981 . .	207,500	89,745	21,669	15,516	4,420
1982 . .	230,800	94,364	23,024	[1]14,834	2,129
1983 . .	266,900	100,376	25,996	[1]14,563	6,300
1984 . .	256,200	89,928	26,609	13,315	4,812
1985 . .	**222,400**	**90,530**	**30,034**	**12,794**	**4,675**
			HAWAII		
1981 . .	76,800		8,827	11,521	4,420
1982 . .	86,900		10,792	[1]11,473	2,129
1983 . .	100,000		10,731	12,412	6,300
1984 . .	94,000		10,384	9,360	4,812
1985 . .	**69,800**		**12,486**	**9,284**	**4,675**
			KAUAI		
1981 . .	46,000	*	595	2,095	
1982 . .	51,000	*	601	[1]1,447	
1983 . .	52,400	*	672	634	
1984 . .	52,400	*	594	1,913	
1985 . .	**53,300**	*	**608**	**1,697**	
			MAUI/MOLOKAI/LANAI		
1981 . .	50,500	39,915	[1]6,357	291	
1982 . .	55,000	38,602	6,356	[1]495	
1983 . .	73,500	45,099	8,032	503	
1984 . .	72,600	42,176	9,088	343	
1985 . .	**63,600**	**36,380**	**9,731**	**255**	
			OAHU		
1981 . .	34,200	49,830	[1]5,890	1,609	
1982 . .	37,900	55,762	5,275	[1]1,419	
1983 . .	41,000	55,277	6,561	[1]1,014	
1984 . .	37,200	47,752	6,543	1,699	
1985 . .	**35,700**	**54,150**	**7,209**	**1,558**	

See footnotes at end of table.

Continued

SUMMARY: Value of crop sales, by islands, 1981-85 -- Continued

Year	Macadamia nuts (in shell)	Taro	Field crops (not estimated separately) [2]	Flowers and nursery products [3]	Total crops [4]
			1,000 dollars		
			STATE		
1981 . .	26,454	1,305	5,107	29,482	401,348
1982 . .	27,136	1,447	[1]4,376	30,600	[1]428,860
1983 . .	23,928	1,229	6,277	36,165	[1]481,934
1984 . .	26,088	1,382	6,062	38,905	463,501
1985 . .	30,450	1,578	8,148	44,247	445,056
			HAWAII		
1981 . .	26,355	104	56	12,496	140,712
1982 . .	27,047	197	12	13,559	[1]152,244
1983 . .	23,783	185	39	14,316	167,951
1984 . .	25,950	205	142	16,944	161,982
1985 . .	30,015	290	2,615	19,605	148,955
			KAUAI		
1981 . .	[5]	934	1,297	740	51,724
1982 . .	[5]	972	[1]1,379	299	[1]55,754
1983 . .	[5]	762	1,722	421	56,648
1984 . .	[5]	918	1,716	788	58,351
1985 . .	[5]	1,032	1,761	1,179	59,599
			MAUI/MOLOKAI/LANAI		
1981 . .	[5]	[5]	2,387	3,979	[1]103,690
1982 . .	[5]	[5]	[1]2,759	3,925	[1]107,416
1983 . .	[5]	[5]	3,977	4,489	135,934
1984 . .	[5]	[5]	3,832	4,546	132,898
1985 . .	[5]	[5]	3,442	5,273	119,289
			OAHU		
1981 . .	[5]	[5]	1,367	12,267	[1]105,222
1982 . .	[5]	[5]	226	12,817	[1]113,446
1983 . .	[5]	[5]	539	16,939	[1]121,401
1984 . .	[5]	[5]	372	16,627	110,270
1985 . .	[5]	[5]	330	18,190	117,213

* = Less than $50,000.

[1] Revised.

[2] Forage and grain crops.

[3] Flowers, foliage, and nursery products.

[4] Total crop values shown for individual islands are actual. Sum of individual commodities may not add to total. Forest product's value combined and included in total crop value.

[5] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of livestock sales, total value of crop and livestock sales, and government payments, by islands, 1981-85

Year	Cattle [1]	Hogs [1]	Milk	Eggs	Broilers and chickens	Other [2]	Total livestock [3]	Total crops and livestock	Government payments [4]
					1,000 dollars				
					STATE				
1981 . .	28,405	8,382	30,320	15,159	5,307	581	88,154	489,502	587
1982 . .	27,619	8,465	21,908	14,542	5,240	634	78,408	[5]507,268	586
1983 . .	29,308	7,775	28,869	14,041	5,529	966	86,488	[5]568,422	6,775
1984 . .	28,101	8,088	29,288	15,535	5,189	814	87,015	550,516	2,675
1985 . .	**26,632**	**7,995**	**28,310**	**14,020**	**4,895**	**969**	**82,821**	**527,877**	**670**
					HAWAII				
1981 . .	18,059	954	[6]	[6]	[6]	379	23,018	163,730	440
1982 . .	18,907	758	[6]	[6]	[6]	464	23,777	[5]176,021	476
1983 . .	18,831	785	[6]	[6]	[6]	723	23,873	191,824	401
1984 . .	18,126	729	[6]	[6]	[6]	535	23,233	185,215	458
1985 . .	**16,870**	**760**	[6]	[6]	[6]	**662**	**22,122**	**171,077**	**508**
					KAUAI/NIIHAU				
1981 . .	2,295	746	[6]	[6]	[6]	63	5,244	56,968	43
1982 . .	1,913	683	[6]	[6]	[6]	22	4,724	60,478	27
1983 . .	2,139	633	[6]	[6]	[6]	45	5,111	61,759	101
1984 . .	2,041	668	[6]	[6]	[6]	106	5,203	63,554	47
1985 . .	**1,860**	**758**	[6]	[6]	[6]	**115**	**5,069**	**64,668**	**44**
					MAUI/MOLOKAI/LANAI				
1981 . .	6,398	2,146	[6]	[6]	[6]	91	11,605	[5]115,295	69
1982 . .	6,043	2,110	[6]	[6]	[6]	105	11,358	[5]118,774	64
1983 . .	6,893	1,922	[6]	[6]	[6]	151	12,393	148,327	96
1984 . .	6,889	1,940	[6]	[6]	[6]	125	12,521	145,419	94
1985 . .	**6,820**	**1,935**	[6]	[6]	[6]	**149**	**12,215**	**131,504**	**84**
					OAHU				
1981 . .	1,653	4,536	24,136	12,837	5,077	48	48,287	[5]153,509	35
1982 . .	756	4,914	15,687	12,160	4,989	43	38,549	[5]151,995	19
1983 . .	1,445	4,435	22,496	11,412	[6]	47	45,111	[5]166,512	6,177
1984 . .	1,045	4,751	22,485	12,809	[6]	48	46,058	156,328	2,076
1985 . .	**1,082**	**4,542**	**21,710**	**11,477**	[6]	**43**	**43,415**	**160,628**	**34**

---

[1] Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

[2] Includes sheep, wool, turkeys, horses, honey, and beeswax.

[3] Sum of individual commodities may not add to total.

[4] Includes all government payments, such as Agricultural Conservation Program, Dairy Indemnity Payment Program, Emergency Conservation Program, Forestry Incentives Program, Emergency Feed Program, wool payments, and sugar support.

[5] Revised.

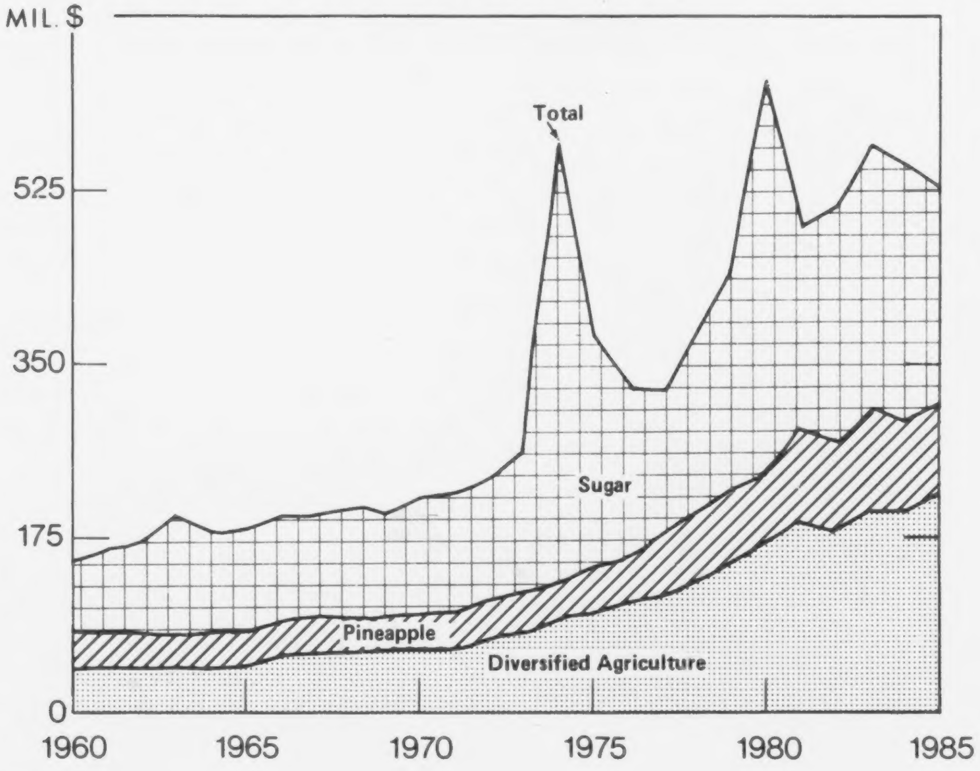
[6] Island data not shown separately to avoid disclosure of individual operations but combined and included in State total.

Diversified agriculture ranked by value, State of Hawaii, 1983-85

Crops	Rank			Value of production			Percent of diversified agriculture		
	1983	1984	1985	1983	1984	1985	1983	1984	1985
	-------- Number -------			-------------- 1,000 dollars --------------			----------- Percent -----------		
Flowers and nursery products	1	1	1	36,165	38,905	44,247	18.0	20.6	20.6
Macadamia nuts	5	5	2	23,928	26,088	30,450	11.9	12.5	14.2
Vegetables and melons	4	4	3	25,996	26,609	30,034	12.9	12.8	14.0
Milk	3	2	4	28,869	29,288	28,310	14.4	14.0	13.2
Cattle	2	3	5	29,308	28,101	26,632	14.6	13.5	12.4
Eggs	7	6	6	14,041	15,535	14,020	7.0	7.4	6.5
Fruits (excluding pineapple)	6	7	7	[1]14,563	13,315	12,794	7.2	6.4	5.9
Forage, grain, and forest products	9	9	8	6,477	6,262	8,348	3.2	3.0	3.9
Hogs	8	8	9	7,775	8,088	7,995	3.9	3.9	3.7
Broilers and chickens	11	10	10	5,529	5,189	4,895	2.7	2.5	2.3
Coffee	10	11	11	6,300	4,812	4,675	3.1	2.3	2.2
Taro	12	12	12	1,229	1,382	1,578	.6	.7	.7
Other livestock	13	13	13	966	814	969	.5	.4	.4
TOTAL				[1]201,146	204,388	214,947	100.0	100.0	100.0

[1] Revised.

CASH RECEIPTS OF AGRICULTURAL COMMODITIES, STATE OF HAWAII, 1960-85



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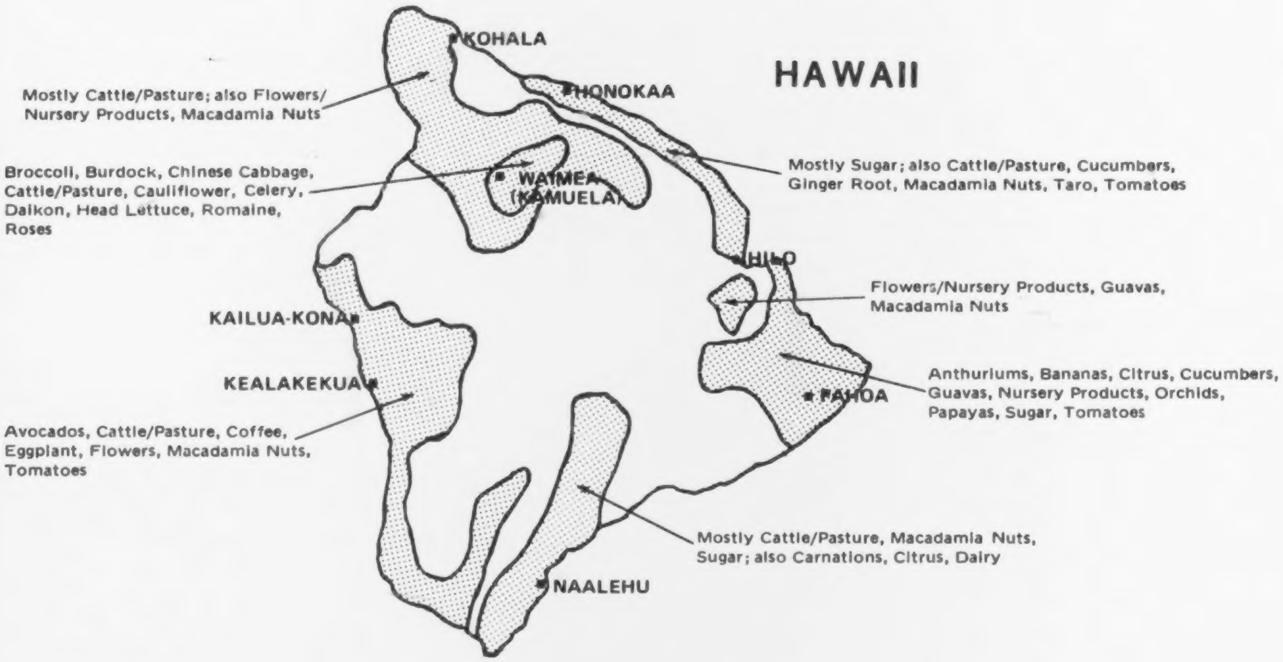
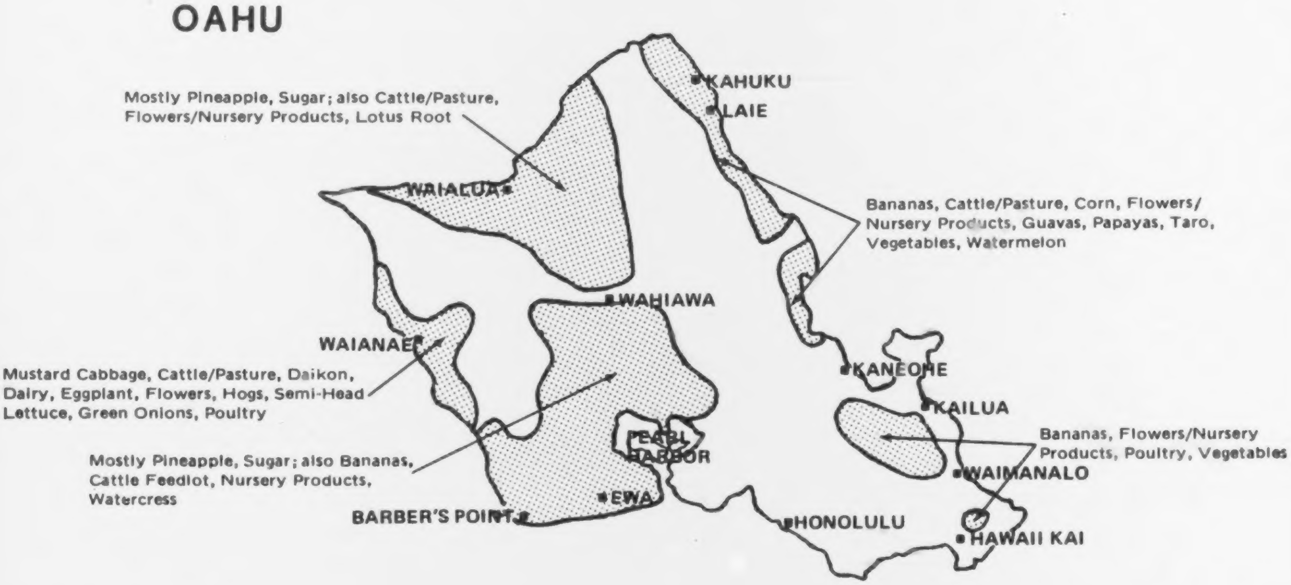
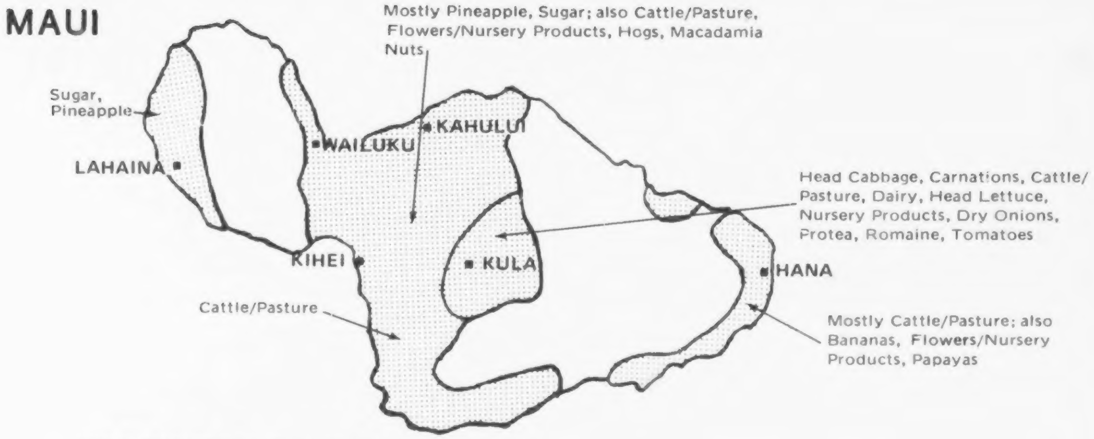
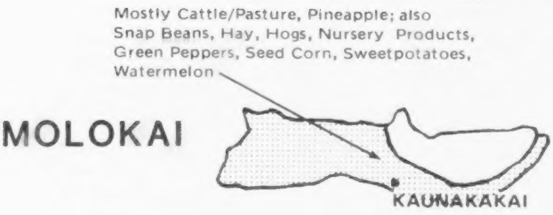
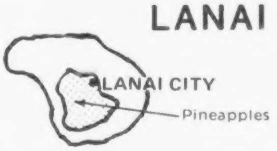
MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 1985

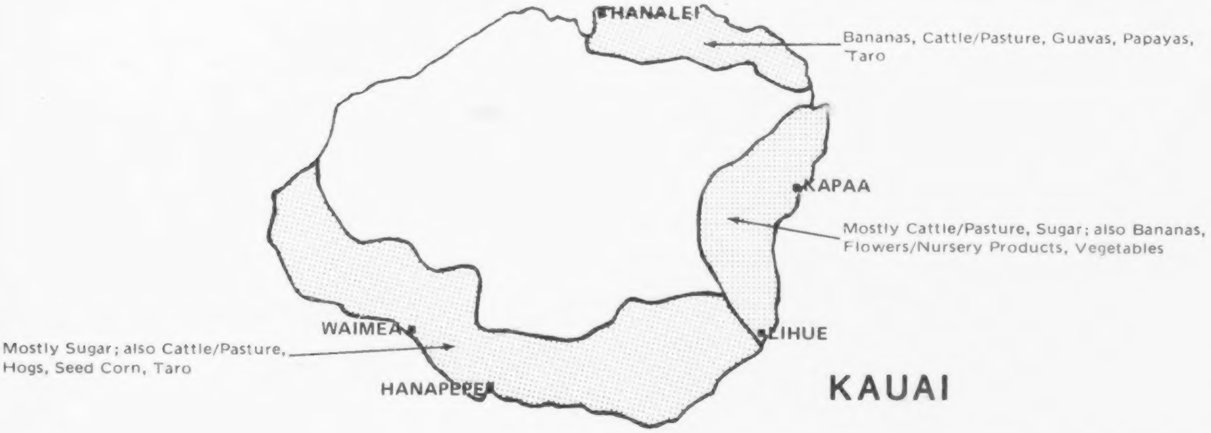

HAWAII
KOHALA
HONOKAA
WAIMEA (KAMUELA)
HILO
KAILUA-KONA
KEALAKEKUA
PAHOA
NAALEHU
Mostly Cattle/Pasture; also Flowers/ Nursery Products, Macadamia Nuts
Broccoli, Burdock, Chinese Cabbage, Cattle/Pasture, Cauliflower, Celery, Daikon, Head Lettuce, Romaine, Roses
Mostly Sugar; also Cattle/Pasture, Cucumbers, Ginger Root, Macadamia Nuts, Taro, Tomatoes
Flowers/Nursery Products, Guavas, Macadamia Nuts
Anthuriums, Bananas, Citrus, Cucumbers, Guavas, Nursery Products, Orchids, Papayas, Sugar, Tomatoes
Avocados, Cattle/Pasture, Coffee, Eggplant, Flowers, Macadamia Nuts, Tomatoes
Mostly Cattle/Pasture, Macadamia Nuts, Sugar; also Carnations, Citrus, Dairy

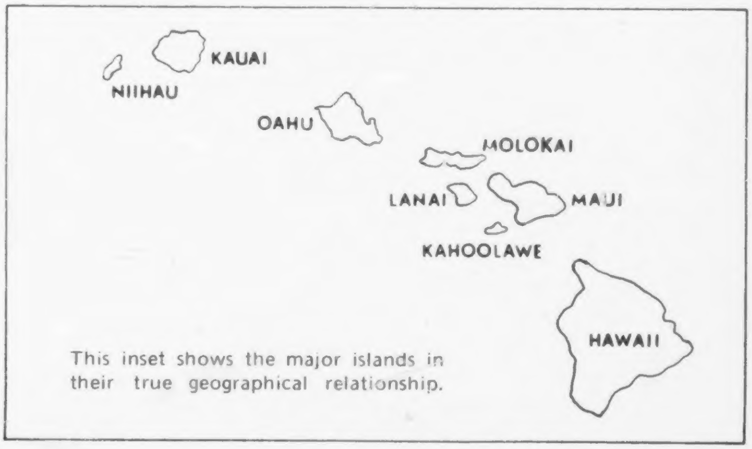

OAHU
KAHUKU
LAIE
WAIALUA
WAHIAWA
WAIANAE
KANEOHE
KAILUA
PEARL HARBOR
WAIMANALO
EWA
BARBER'S POINT
HONOLULU
HAWAII KAI
Mostly Pineapple, Sugar; also Cattle/Pasture, Flowers/Nursery Products, Lotus Root
Bananas, Cattle/Pasture, Corn, Flowers/ Nursery Products, Guavas, Papayas, Taro, Vegetables, Watermelon
Mustard Cabbage, Cattle/Pasture, Daikon, Dairy, Eggplant, Flowers, Hogs, Semi-Head Lettuce, Green Onions, Poultry
Mostly Pineapple, Sugar; also Bananas, Cattle Feedlot, Nursery Products, Watercress
Bananas, Flowers/Nursery Products, Poultry, Vegetables


MAUI
Mostly Pineapple, Sugar; also Cattle/Pasture, Flowers/Nursery Products, Hogs, Macadamia Nuts
Sugar, Pineapple
LAHAINA
WAILUKU
KAHULUI
Head Cabbage, Carnations, Cattle/Pasture, Dairy, Head Lettuce, Nursery Products, Dry Onions, Protea, Romaine, Tomatoes
KIHEI
KULA
HANA
Cattle/Pasture
Mostly Cattle/Pasture; also Bananas, Flowers/Nursery Products, Papayas


Mostly Cattle/Pasture, Pineapple; also Snap Beans, Hay, Hogs, Nursery Products, Green Peppers, Seed Corn, Sweetpotatoes, Watermelon
MOLOKAI
KAUNAKAKAI


LANAI
LANAI CITY
Pineapples


HANALEI
Bananas, Cattle/Pasture, Guavas, Papayas, Taro
KAPAA
Mostly Cattle/Pasture, Sugar; also Bananas, Flowers/Nursery Products, Vegetables
WAIMEA
LIHUE
Mostly Sugar; also Cattle/Pasture, Hogs, Seed Corn, Taro
HANAPEPE
KAUAI


KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII

This inset shows the major islands in their true geographical relationship.

1985 CROP SUMMARY

WEATHER conditions both aided and hindered crop productivity in 1985. Increased rainfall benefitted all crops and ended the nearly two-year long drought. An uneven distribution of moisture throughout the year necessitated water conservation measures in a few agricultural areas. The periodic occurrence of strong winds also hampered crop development. Almost at the outset of 1985, powerful winds hit the islands inflicting damage to papaya, macadamia nut, and banana farms in the eastern sections of Hawaii Island. A second high wind period occurred in March and less intensive winds blew in June, October, and December. The cumulative effect of these winds served to limit the productivity of tree crops and also trellis and bush crops such as cucumbers, snap beans, green peppers, and tomatoes. Vegetable crops in the major growing areas of Kula and Waimea escaped serious injury and many of the crops grown there registered improved yields as rainfall also increased from the two previous years. A majority of weather stations reported higher amounts of precipitation with a few recording near, or above, normal levels. Rainfall, however, did not fall uniformly throughout the year and, as a result, water conservation measures were occasionally imposed in areas where reservoir [illegible] were already low from the previous dry spell. Most often affected were farmers on the State's irrigation system in Waimea, Hawaii. Water conservation notices were issued there in January and again in November and in between farmers were told to voluntarily reduce usage. Overall, water conservation measures were mostly on a voluntary basis and did not affect statewide production to the degree it did in 1984. By year's end, most of the wind-damaged tree crops were making good recovery and farmers were hopeful that drought conditions would exist only in their memories.

Area harvested for **SUGAR** fell to 83,000 acres, the lowest level since records were begun in 1946. Improved cane yields and higher sugar extraction rates could not overcome this decline in harvested acreage as raw sugar production dropped 5 percent to 1,012,000 tons. The sugar industry also experienced decreased revenues with the combined value of raw sugar and molasses estimated at $340,800,000. The 13 percent decline in value was the result of lower production and a drop in the average return of raw sugar to $328 per ton.

PINEAPPLE production, on a fresh weight basis, was estimated at 565,000 tons for 1985, down 6 percent from the previous year. A reduction in pineapple tonnage for processing was the reason for the overall decline. Farm prices, however, from both processed and fresh sales increased during the year.

MACADAMIA NUTS posted new highs in several categories and showed increases in all other areas. Leading the way was a record production of 42,000,000 pounds (in-shell basis), up 11 percent from the previous season. Damages from the strong winds early in the year were largely limited to young, non-bearing trees. Total and bearing acreages also established new highs during the 1985-86 season. Farm price was about the only area falling short of a new record, but at 72.5 cents per pound it represented a 5 percent increase from the previous season.

COFFEE production fell 3 percent to 1,700,000 pounds (parchment basis) as intermittent rains during the crucial flowering and fruit setting period dampened earlier prospects of a record crop. The farm price remained unchanged at $2.75 per pound of parchment coffee. New plantings outnumbered acreage abandonments for the first time in four seasons as total area in crop increased to 2,100 acres.

Total **FRUIT** (excluding **PINEAPPLES**) production dropped 19 percent to 80,980,000 pounds. Most of the decrease was due to a 25 percent reduction in **PAPAYA** output. Weather played a significant role in reducing output as orchards suffered a 6-12 percent tree loss as a result of a mid-January storm and accompanying strong winds. The industry experienced some quality problems associated with the hot water treatment procedure that was substituted for EDB after it was banned. Papaya production also decreased because a larger proportion of the bearing acreage was comprised of older, less productive trees. This was indicated by the relatively stable harvested acreage in spite of a 25 percent decrease in acreage planted for harvest in 1985. **BANANA** production also was down due to wind damage, but still managed to accumulate 8,160,000 pounds. **GUAVA** output did a turnaround by jumping to 9,530,000 pounds, a record amount. Buoyed by a strengthened market, farm prices also rose to 10.2 cents per pound and produced a farm value of $972,000.

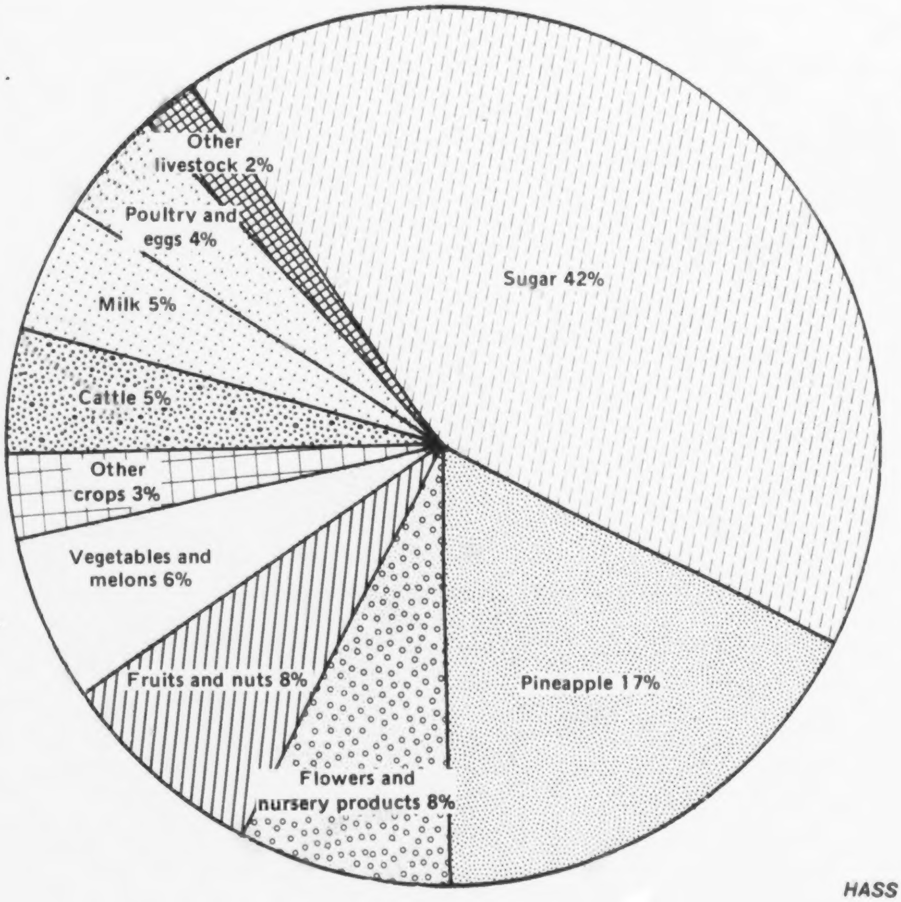
The farm value of **VEGETABLE** and **MELON** production totaled $30,034,000, up 13 percent from the previous year. **GINGER ROOT** regained the top spot in this category as an increase in the farm price to 82.3 cents per pound produced a record farm value of $4,465,000, almost double the returns of a year ago. Some other prominent crops making percentage gains greater than 30 percent in farm value were: **CAULIFLOWER, BROCCOLI,** and **WATERMELONS.** Most crops that experienced a decline in farm value did so because of lower production levels rather than reduced farm prices. Crops such as: **MUSTARD CABBAGE, SWEET CORN, CUCUMBERS, LETTUCE,** and **DRY ONIONS** fell into this category.

During 1985, Hawaii's **FLORICULTURE** industry rang up a record $44,247,000 in sales of flowers and nursery products, 14 percent above the 1984 value. Retaining the top spot were foliage sales, primarily **POTTED FOLIAGE** for indoor use, which accounted for 37 percent of the total floriculture value. Production and weather related problems reduced **CUT ANTHURIUM** flower production, but a higher average price helped push the value to a new record. Receipts from **CUT** and **POTTED ORCHIDS** rose 21 percent from the previous year. **DENDROBIUM ORCHIDS** had a record sales of $3,206,000 surpassing the $3 million mark for the first time. Returns from flowers sold for **LEI** use or **INDIVIDUAL BLOSSOMS** totaled $4,423,000, an increase of 17 percent from 1984.

Principal crops ranked by value, State of Hawaii, 1983-85

Crops	Rank			Value of production			Percent of all crops		
	1983	1984	1985	1983	1984	1985	1983	1984	1985
	Number			1,000 dollars			Percent		
Sugar	1	1	1	266,900	256,200	222,400	55.4	55.3	50.0
Pineapple	2	2	2	100,376	89,928	90,530	20.8	19.4	20.3
Macadamia nuts	3	3	3	23,928	26,088	30,450	5.0	5.6	6.8
Potted foliage plants	5	4	4	10,836	10,050	12,019	2.2	2.2	2.7
Papayas	4	5	5	11,591	9,196	8,579	2.4	2.0	1.9
Anthuriums	7	6	6	6,035	7,351	7,645	1.3	1.6	1.7
Seed corn	8	7	7	4,170	5,150	5,120	.9	1.1	1.2
Coffee	6	8	8	6,300	4,812	4,675	1.3	1.0	1.1
Ginger root	11	13	9	2,806	2,280	4,465	.6	.5	1.0
Tomatoes	9	9	10	3,367	3,103	3,136	.7	.7	.7
Feed and Forage	12	25	11	2,107	912	3,028	.4	.2	.7
Bananas	17	10	12	1,395	2,670	2,472	.3	.6	.6
Lettuce	10	11	13	2,806	2,458	2,341	.6	.5	.5
Other orchids	15	16	14	1,588	1,836	2,263	.3	.4	.5
Cabbage, head	14	14	15	1,770	2,058	2,168	.4	.4	.5

STATE OF HAWAII, 1985 AGRICULTURAL VALUE RATIOS



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WEATHER: Precipitation, selected stations, State of Hawaii, 1985

STATIONS	YEAR & NORMAL	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% OF NORMAL
ISLAND OF HAWAII															
Hawaii National Park Hq. 54	Normal	10.61	10.23	11.75	10.10	7.75	4.67	5.23	7.20	4.58	6.89	11.47	12.33	102.81	
	1985	2.12	11.12	30.63	7.59	11.28	1.54	5.39	7.81	6.01	8.16	2.40	2.50	96.55	93.9
Hawi 168.	Normal	4.70	4.34	5.22	5.04	3.56	2.96	3.93	4.19	2.27	3.61	4.02	5.92	49.76	
	1985	4.60	2.95	10.14	3.90	4.76	1.06	M	6.86	4.99	4.33	2.03	M	45.62	91.7
Hilo (285)	Normal	9.07	12.90	13.69	12.88	10.07	6.61	9.54	10.88	7.44	10.96	13.77	15.76	133.57	
	1985	.90	9.80	27.20	12.40	15.70	2.10	11.30	5.80	13.40	8.00	4.80	2.60	114.00	85.3
Kealakekua (HI84) . .	Normal	3.50	2.40	3.80	4.10	5.90	6.10	6.80	8.70	8.00	6.20	3.60	2.10	61.20	
	1985	1.70	2.00	4.50	2.00	4.20	4.10	9.90	3.10	9.70	2.70	4.50	.80	49.20	80.4
Naalehu 14.	Normal	7.97	5.85	5.53	2.70	2.18	1.79	1.58	3.92	3.36	3.88	5.21	4.57	48.54	
	1985	2.24	5.02	12.48	1.77	.82	.56	1.13	.85	8.92	6.46	7.24	1.25	48.74	100.4
Pahoa (HI83)	Normal	11.02	13.17	15.16	12.59	11.87	8.10	10.20	11.13	8.50	11.81	14.28	17.28	145.11	
	1985	1.50	8.90	33.10	11.50	15.40	2.20	8.70	7.50	9.10	8.70	5.00	3.80	115.40	79.5
Waimea (HI86)	Normal	4.21	3.78	3.97	3.55	2.20	1.57	2.31	2.52	1.07	2.03	2.78	4.84	34.83	
	1985	1.60	.60	10.70	4.10	2.40	.80	3.00	2.90	3.00	3.00	3.20	7.90	43.20	124.0
ISLAND OF KAUAI															
Eleele 927	Normal	5.74	3.39	3.28	2.39	1.74	1.10	1.33	1.79	1.40	2.61	3.60	5.12	33.49	
	1985	2.98	7.77	3.08	.87	1.70	.36	.63	.68	1.10	1.67	3.77	.29	24.90	74.4
Kekaha 944	Normal	4.63	2.57	2.37	1.56	1.04	.25	.39	.75	.74	1.72	2.18	4.24	22.44	
	1985	3.05	3.11	.38	.03	.28	.29	.03	.55	.70	.97	4.47	.49	14.35	64.0
Wailua (HI40)	Normal	9.42	7.09	8.28	7.07	5.45	4.07	5.68	6.60	4.65	7.45	9.03	9.41	84.20	
	1985	3.30	6.90	4.80	5.10	5.50	1.30	4.30	4.60	7.40	9.10	4.40	.80	57.50	68.3
ISLAND OF LANAI															
Lanai Airport (LNY) .	Normal	5.50	1.40	1.60	.90	.70	.20	.50	.60	.70	1.60	1.20	2.30	17.20	
	1985	--	.00	--	.00	--	--	--	--	--	--	--	--	0.00	0.0
ISLAND OF MAUI															
Hamakuapoko HC & S 485	Normal	5.10	4.85	5.81	4.50	2.83	2.39	3.60	3.65	1.89	3.69	5.07	6.73	50.11	
	1985	2.73	4.93	7.28	2.20	3.82	.41	2.92	2.62	1.97	5.85	3.42	M	38.15	76.1
Hana Airport 355 . . .	Normal	9.47	7.93	8.85	7.14	5.70	3.82	5.28	5.78	4.85	6.48	8.16	6.76	80.22	
	1985	5.26	5.05	7.63	6.75	7.22	.65	5.13	10.34	7.18	6.76	8.90	1.34	72.21	90.0
Kihei 311	Normal	3.67	1.76	2.03	.79	.27	.10	.15	.19	.07	.68	1.69	2.39	13.79	
	1985	2.60	1.19	.38	.20	.26	.00	.45	.03	.08	3.31	5.35	M	13.85	100.4
Kula (HI65)	Normal	5.64	3.45	3.53	2.98	2.20	1.41	2.17	2.07	1.93	1.91	2.95	3.61	33.85	
	1985	1.60	2.10	1.60	.10	1.60	.00	3.60	.30	1.30	2.40	2.30	3.80	20.70	61.2
Lahaina 361	Normal	3.70	1.65	2.04	.93	.48	.09	.21	.33	.23	.90	2.07	2.86	15.49	
	1985	2.31	1.09	.93	.05	.06	.00	.05	.00	.10	5.49	1.99	1.41	13.48	87.0
Wailuku (HI66)	Normal	4.88	3.81	4.16	2.41	1.02	.43	.74	.77	.49	1.86	2.79	4.65	28.01	
	1985	1.90	2.10	4.20	.90	2.80	+	.70	1.30	.50	7.30	5.50	4.00	31.20	111.4
ISLAND OF MOLOKAI															
Molokai Airport (MKK)	Normal	4.64	2.84	3.90	1.90	1.14	.48	.74	.76	.70	1.59	3.48	4.37	26.54	
	1985	2.80	2.20	.80	+	1.00	.00	1.60	.70	1.00	.30	1.30	3.80	15.50	58.4
ISLAND OF OAHU															
Kahuku (HI09)	Normal	4.40	3.10	4.40	2.90	1.90	1.30	1.70	2.10	1.90	2.50	3.40	4.10	33.70	
	1985	1.70	5.20	2.10	1.90	3.20	.50	.90	.90	3.80	3.50	2.50	1.70	27.90	82.8
Waialua 847	Normal	4.99	3.65	3.84	2.32	1.34	.44	.95	1.26	.67	2.27	3.15	4.64	29.52	
	1985	2.83	7.42	2.22	.93	2.13	.85	.40	.40	2.30	7.64	4.54	1.74	33.40	113.1
Waianae (HI17)	Normal	3.79	3.13	2.31	1.12	.61	.35	.38	.84	.77	1.87	1.81	2.66	19.64	
	1985	.50	1.80	.20	.40	.90	.00	2.10	.30	3.10	6.90	2.00	2.30	20.50	104.4
Waimanalo Exp. 795.1.	Normal	8.35	3.98	5.80	4.11	2.83	1.22	1.92	1.88	1.81	3.59	6.31	6.26	48.06	
	1985	6.50	13.59	1.32	.56	3.07	.15	1.22	.77	3.19	6.22	8.71	.69	45.99	95.7
Waipahu Sugar 750 . .	Normal	5.00	2.71	3.20	1.88	1.20	.36	.76	.92	.84	2.04	3.35	4.09	26.35	
	1985	1.60	4.47	1.20	.86	1.26	.80	1.27	.62	3.83	6.09	1.51	.90	24.41	92.6

M = Insufficient or partial data.
-- = No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
+ = Amount less than .05.
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration.

SUGARCANE: Number of farms, acreage, yield, production, price, and value, by islands, 1981-85 [1]

Year	Farms [2]	Acreage		Yield per acre (cane) [3]	Production of cane for sugar	Farm price [3]	Value of cane for sugar [4]
		In crop [2]	Harvested for sugar				
	Number	---------- 1,000 acres ----------		Tons	1,000 tons	Dollars per ton	Million dollars
				STATE			
1981 . .	360	216.1	97.6	90.5	8,831	23.50	207.5
1982 . .	285	204.8	89.3	98.6	8,808	26.20	230.8
1983 . .	230	194.3	92.8	96.2	8,926	29.90	266.9
1984 . .	185	188.4	89.5	94.5	8,454	30.30	256.2
1985 . .	**155**	**187.9**	**83.0**	**95.4**	**7,916**	**28.10**	**222.4**
				HAWAII			
1981 . .	349	90.5	38.4	91.3	3,507	21.90	76.8
1982 . .	274	83.2	35.1	107.8	3,780	23.00	86.9
1983 . .	219	75.6	35.7	107.6	3,840	26.00	100.0
1984 . .	174	70.9	33.6	101.8	3,420	27.50	94.0
1985 . .	**144**	**69.9**	**28.7**	**93.6**	**2,686**	**26.00**	**69.8**
				KAUAI			
1981 . .	5	45.8	21.8	89.4	1,949	23.60	46.0
1982 . .	5	44.9	20.9	89.5	1,869	27.30	51.0
1983 . .	5	44.1	21.1	79.0	1,667	31.40	52.4
1984 . .	5	43.9	21.0	76.1	1,599	32.80	52.4
1985 . .	**5**	**43.7**	**21.0**	**85.8**	**1,802**	**29.60**	**53.3**
				MAUI			
1981 . .	3	47.1	22.5	90.6	2,038	24.80	50.5
1982 . .	3	47.5	19.2	96.3	1,853	29.70	55.0
1983 . .	3	47.4	22.3	100.1	2,232	32.90	73.5
1984 . .	3	47.2	22.5	101.5	2,283	31.80	72.6
1985 . .	**3**	**47.2**	**22.4**	**98.6**	**2,208**	**28.80**	**63.6**
				OAHU			
1981 . .	3	32.7	14.9	89.7	1,337	25.60	34.2
1982 . .	3	29.2	14.1	92.7	1,306	29.00	37.9
1983 . .	3	27.2	13.7	86.6	1,187	34.50	41.0
1984 . .	3	26.4	12.4	92.9	1,152	32.40	37.2
1985 . .	**3**	**27.1**	**10.9**	**111.9**	**1,220**	**29.30**	**35.7**

[1] Primary data source, Hawaiian Sugar Planters' Association.
[2] At end of year.
[3] Yield and farm price may not compute exactly due to rounding.
[4] Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges paid by independent producers.

SUGAR: Production of raw sugar and molasses, price, and value, by islands, 1981-85 [1]

Year	Mill production		Average returns received [3]		Value of production		
	Raw sugar 96°	Molasses [2]	Raw sugar 96°	Molasses [2]	Raw sugar 96°	Molasses [2]	Total
	1,000 tons		Dollars per ton		Million dollars		
				STATE			
1981 . .	1,048	312	300	43.90	314.2	13.7	327.9
1982 . .	983	287	350	27.60	343.9	7.6	351.5
1983 . .	1,044	292	380	[4]47.00	396.5	13.7	410.2
1984 . .	1,062	298	360	33.80	382.9	10.1	393.0
1985 . .	**1,012**	**256**	**328**	**34.80**	**331.9**	**8.9**	**340.8**
				HAWAII			
1981 . .	384	105	299	43.80	114.9	4.6	119.5
1982 . .	369	99	350	27.60	129.0	2.8	131.8
1983 . .	392	105	379	[4]46.80	148.6	4.9	153.5
1984 . .	391	109	360	33.20	140.6	3.6	144.2
1985 . .	**319**	**78**	**327**	**35.40**	**104.3**	**2.8**	**107.1**
				KAUAI			
1981 . .	236	69	300	43.50	71.0	3.0	74.0
1982 . .	217	63	351	27.10	76.2	1.6	77.8
1983 . .	204	63	381	[4]46.30	77.9	2.9	80.8
1984 . .	217	62	361	34.30	78.3	2.1	80.4
1985 . .	**242**	**61**	**328**	**35.10**	**79.4**	**2.1**	**81.5**
				MAUI			
1981 . .	255	84	300	45.20	76.6	3.8	80.4
1982 . .	235	79	351	28.00	82.2	2.2	84.4
1983 . .	287	85	381	[4]47.50	109.2	4.0	113.2
1984 . .	300	87	362	34.10	108.4	3.0	111.4
1985 . .	**290**	**83**	**328**	**34.60**	**95.1**	**2.9**	**98.0**
				OAHU			
1981 . .	173	54	299	42.60	51.7	2.3	54.0
1982 . .	162	46	349	27.90	56.5	1.0	57.5
1983 . .	161	39	379	[4]47.70	60.8	1.9	62.7
1984 . .	154	40	361	34.10	55.6	1.4	57.0
1985 . .	**161**	**34**	**330**	**33.60**	**53.1**	**1.1**	**54.2**

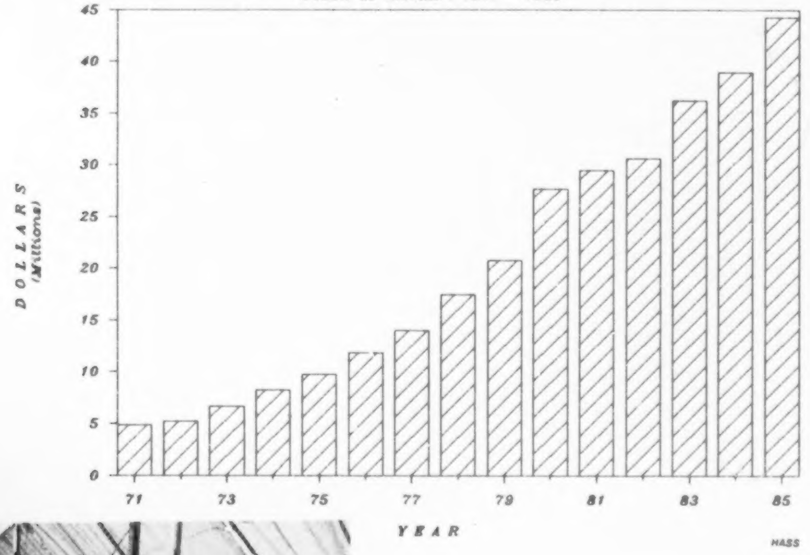
[1] Primary data source, Hawaiian Sugar Planters' Association.
[2] Commercial.
[3] Derived from production and value. State and island prices may not compute exactly due to rounding.
[4] Revised.

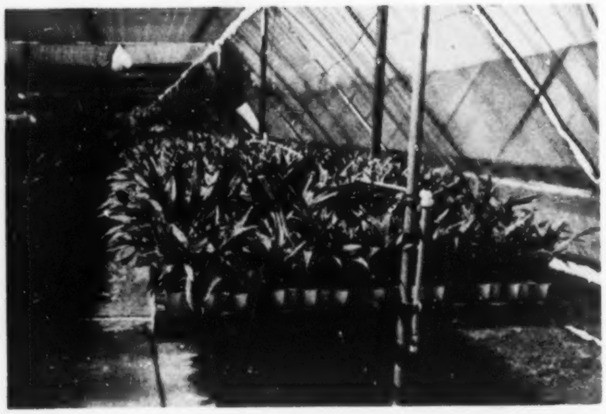
HAWAII'S FLORICULTURE INDUSTRY

Hawaii's floriculture industry has realized an annual growth rate of 17 percent over the past 15 years while developing into the leading segment of diversified agriculture. This is the fifth consecutive year that floriculture has ranked at the top of diversified agriculture and in 1985, claimed one-fifth of the value with $44.2 million. Floriculture's strength comes from a wide spectrum of flowers, foliage and nursery crops which presents a promising future with expansion expected to continue.

TOTAL VALUE OF HAWAII'S FLORICULTURE

STATE OF HAWAII : 1971 – 1985



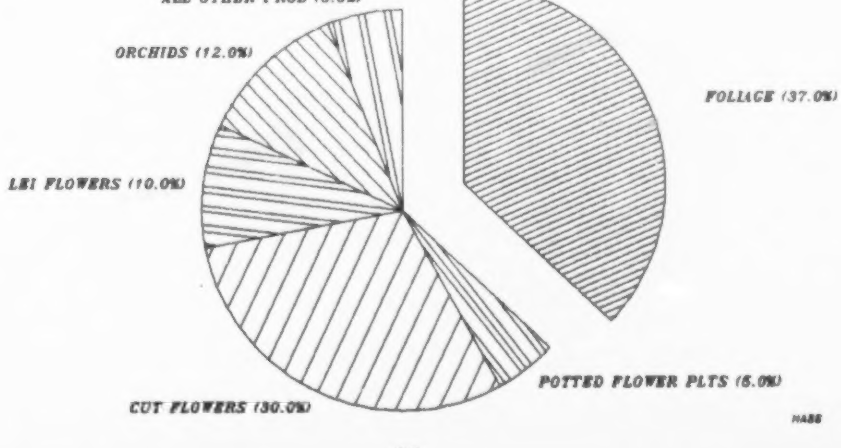


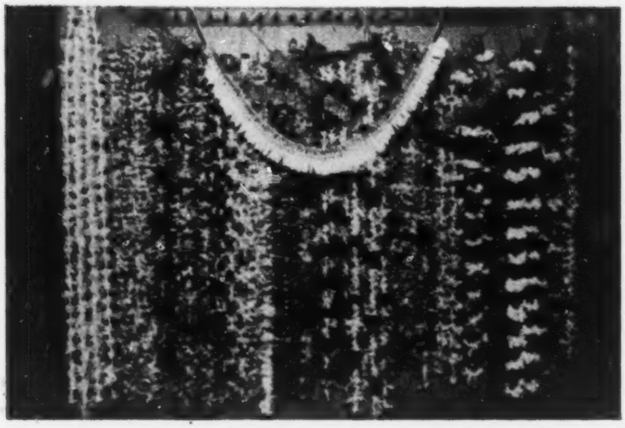
FOLIAGE

Foliage of all types has seen steady growth in 4 of the last 5 years, as the total value of sales climbed to $16.5 million, up 20 percent from the revised 1984 value and 64 percent above the value of the 1981 foliage crop. Out-of-State sales are very important to the foliage industry as more than two-thirds of the value comes from this source. Foliage sales represent the largest major floriculture category with 37 percent of the statewide sale's value.

1985 HAWAII FLORICULTURE VALUE

FOLIAGE—Ranked at the top





LEI FLOWERS

Synonymous with Hawaii, perhaps more than any other flower use, is the traditional lei. The lei flower industry is an important segment of the floriculture industry with receipts of $4.4 million in 1985. Major commercial lei flower crops are carnations, tuberose and orchids (dendrobiums and vanda, Miss Joaquim).

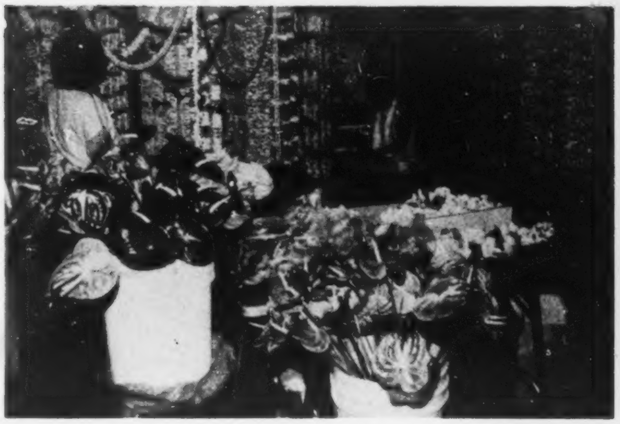
Honolulu county growers provide most of the dendrobium and plumeria flowers, while vanda, Miss Joaquim, comes mostly from Hawaii county.

Leis are used every day of the year for greeting visitors to and from the islands, special occasions such as weddings, birthdays, anniversaries, graduations, holidays, etc. Valentine's Day, Mother's Day and all spring graduations are the occasions when leis are most frequently used.

CUT FLOWERS

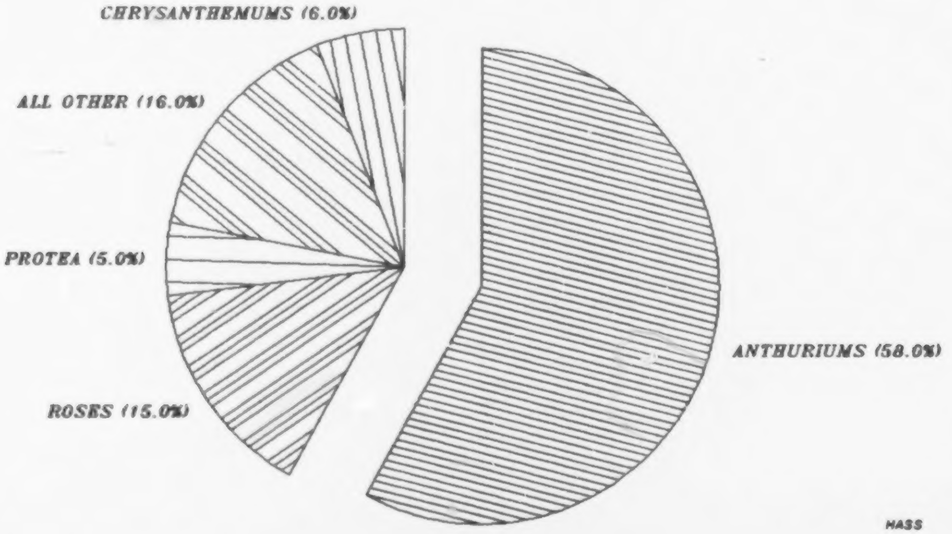
The value of cut flowers, excluding orchids, has grown steadily and in 1985, at $13.2 million, exceeded the entire value that the floriculture industry recorded 10 years earlier. Anthuriums, the mainstay of the cut flower industry, climbed to a record high $7.6 million in grower returns in 1985, with an average annual growth rate of over 16 percent for the past 10 years. Other important cut flowers include roses, pompon chrysanthemums and protea. Sales of the more tropical Birds of Paradise, gingers and heliconia are on the rise as interest and popularity of these exotics increases. Exports to the U. S. mainland and foreign countries comprise a major share of the cut flower market. All but 1 percent of the 1985 anthurium production was shipped out-of-State with the U. S. mainland, Japan and Italy the primary markets.

Hawaii county dominated the anthurium industry with 95 percent of production and value of sales in 1985. Maui county, the primary source of protea flowers, represented 79 percent of the State's 1985 production and 90 percent of the sale's value.



CUT FLOWER'S VALUE

HAWAII , 1985



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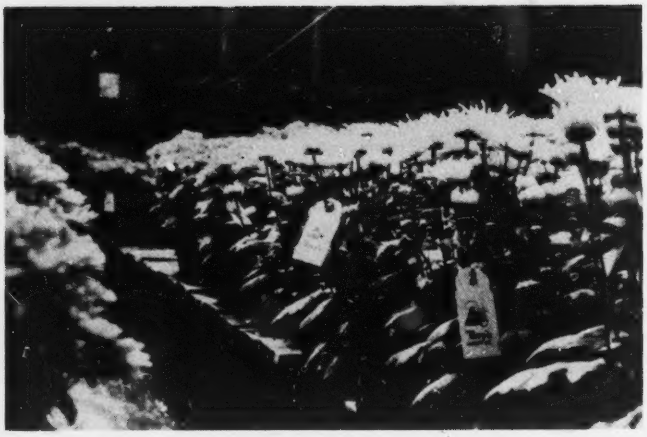
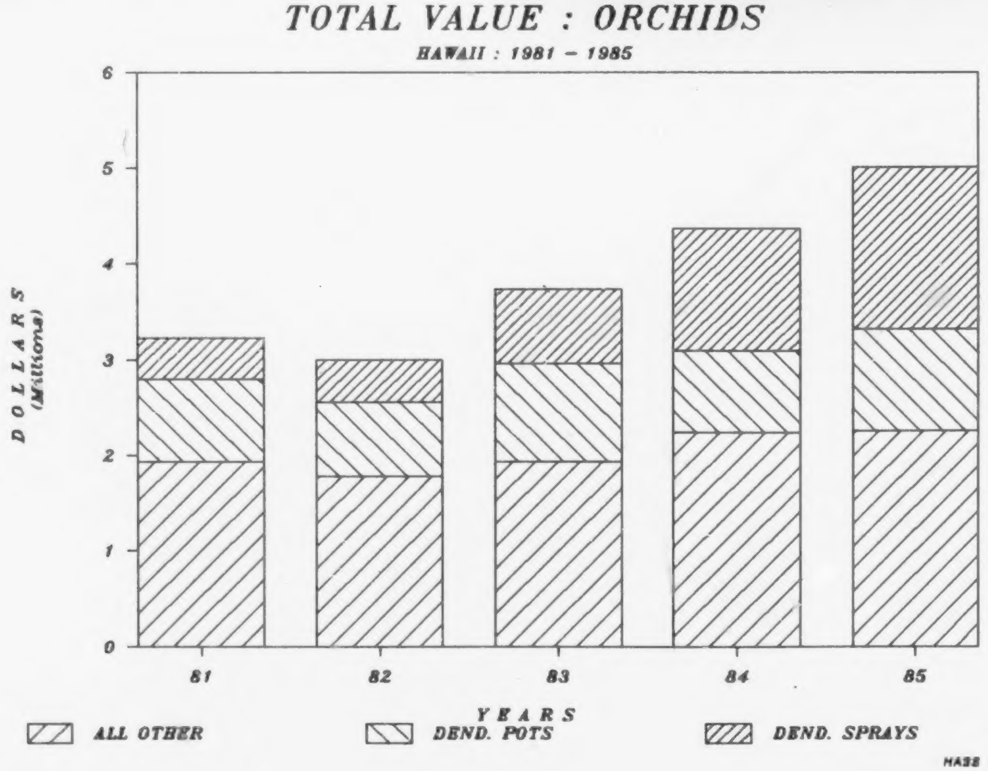


POTTED FLOWERING PLANTS

The potted flowering plant segment of the floriculture industry has grown 39 percent since 1980 based on comparable records that include anthuriums. (Prior to 1980, anthuriums were included with "other potted plant" figures.) Chrysanthemums have been the industry leader in this category for many years although 1985 sales are down 19 percent compared to the extra high value recorded for the 1984 crop. Poinsettias bounced back after a reduced crop last year to record a 36 percent increase and account for 30 percent of the total value for potted flowering plants. The primary market for chrysanthemums and poinsettias is sales within the islands. However, potted anthuriums are gaining in importance as an export item as well as local sales.

ORCHIDS

Orchid sales in 1985 were 5.5 times greater than they were 10 years ago. During this time, growers achieved a 21 percent annual growth rate in spite of the 1982 value which was 7 percent below the previous year. Dendrobium orchids in pots and as cut sprays represent 52 percent of the total value. (Dendrobium flowers for leis are not included here.) Orchids continue to catch the imagination of others outside of Hawaii as over half of the dendrobium sales were out-of-State.



FLORICULTURE AND NURSERY PRODUCTS: State of Hawaii, 1981-85

Commodity	Farms having sales					Number sold					Value of sales				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	---------- Number ----------										---------- 1,000 dollars ----------				
Selected cut flowers: (000 dozens)															
Anthuriums	235	225	210	205	**195**	2,104	1,984	2,054	2,335	**2,305**	5,295	5,633	6,035	7,351	**7,645**
Birds of Paradise	30	30	37	50	**61**	28	17	34	51	**35**	77	58	110	186	**213**
Carnations	10	9	10	12	**16**	53	36	79	91	**151**	114	80	179	219	**326**
Chrysanthemums, other	3	3	3	1	**4**	11	2	7	5	**5**	43	9	27	20	**23**
Ginger, red	51	51	50	60	**65**	65	64	68	82	**78**	157	205	207	267	**246**
Heliconia [1]					**34**					**31**					**125**
Roses	6	6	7	8	**10**	452	478	561	453	**645**	1,032	1,381	1,761	1,556	**1,956**
Protea: (000 stems)															
Pincushion	14	14	15	20	**19**	518	637	491	538	**506**	183	210	100	115	**107**
Other	12	21	22	26	**32**	164	347	534	514	**606**	137	201	335	355	**617**
Chrysanthemums, pompon (000 bunches)	16	17	14	14	**14**	471	439	448	457	**455**	590	546	641	690	**833**
Other NSS	72	61	60	75	**71**	NA	NA	NA	NA	**NA**	553	406	511	1,162	**1,155**
Orchids:															
Cut: (000 flowers)															
Cattleyas	31	28	26	21	**25**	63	67	56	48	**54**	63	54	49	41	**66**
Cymbidiums	16	17	14	17	**18**	420	736	577	552	**530**	199	224	173	213	**170**
Dendrobium sprays (000 dozens)	51	56	60	71	**74**	83	78	123	208	**270**	431	440	774	1,278	**1,687**
Other NSS [2]	13	24	29	29	**26**	NA	NA	NA	NA	**NA**	10	83	120	145	**54**
Potted: (000 pots)															
Dendrobiums	96	91	90	84	**88**	243	186	229	208	**201**	870	777	1,032	854	**1,061**
Other orchids	70	66	65	71	**71**	347	312	328	375	**365**	1,655	1,415	1,588	1,836	**2,263**
Lei flowers: (Mil. blooms)															
Carnations	24	29	23	20	**19**	40.3	33.7	35.9	33.6	**31.0**	1,338	1,206	1,304	1,112	**1,149**
Vanda, Miss Joaquim	31	31	28	28	**31**	57.1	42.5	40.6	25.0	**24.0**	815	1,185	1,226	980	**1,015**
Plumeria	20	21	18	17	**22**	17.8	31.9	30.5	25.4	**21.8**	291	446	460	484	**432**
Tuberose	6	7	6	6	**8**	30.8	18.2	27.0	28.0	**36.0**	668	382	758	720	**1,149**
Dendrobiums	25	37	42	37	**44**	8.5	6.5	7.6	10.5	**18.0**	244	179	234	314	**458**
Pikake (000 strands)	15	16	17	15	**20**	140	118	124	110	**134**	180	155	163	160	**220**
Foliage:															
Potted:															
Primarily for indoor or patio use	94	90	80	85	**110**	NA	NA	NA	NA	**NA**	7,268	8,820	10,836	10,050	**12,019**
Primarily for landscape use	51	41	40	45	**45**	NA	NA	NA	NA	**NA**	1,335	930	845	1,245	**1,812**
Unfinished stock: (for further growing on)	27	29	24	20	**29**	NA	NA	NA	NA	**NA**	950	1,233	1,430	1,525	**1,845**
Cut:															
Ti leaves (Mil. leaves)	57	55	60	54	**53**	10.1	10.5	10.6	13.3	**12.7**	266	279	375	507	**491**
Other greens	32	30	33	40	**51**	NA	NA	NA	NA	**NA**	252	280	291	355	**309**
Potted flowering plants: (000 pots)															
Anthuriums	21	15	14	17	**18**	98	82	142	52	**90**	128	126	190	125	**158**
Chrysanthemums	11	11	8	10	**13**	205	214	218	278	**240**	689	681	743	957	**779**
Poinsettias	25	26	25	29	**38**	136	149	150	139	**192**	430	474	513	453	**618**
Other NSS	83	76	35	38	**41**	NA	NA	NA	NA	**NA**	230	417	496	404	**479**
Ornamentals and trees	72	39	42	42	**40**	NA	NA	NA	NA	**NA**	851	463	773	915	**603**
Other nursery products [3]	99	77	92	102	**74**	NA	NA	NA	NA	**NA**	2,138	1,622	1,886	2,311	**2,164**
TOTAL	[4]680	[4]650	[4]680	[4]670	**[4]675**						29,482	30,600	36,165	38,905	**44,247**

NA = Not available.

NSS = Not shown separately.

[1] Prior to 1985, included with other NSS.

[2] Includes vanda hybrids, phalaenopsis, and cypripediums.

[3] Includes bedding plants, plant rentals, and any other flowers or nursery products not elsewhere classified.

[4] Unduplicated count. Number for each individual flower or item is count of those having sales of that item during each year.

FLORICULTURE AND NURSERY PRODUCTS: Hawaii Island, 1981-85

Commodity	Number sold					Value of sales				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
						1,000 dollars				
Selected items:										
Anthuriums (000 dozens)	2,021	1,940	1,975	2,250	2,185	5,037	5,470	5,766	7,062	7,246
Cymbidiums (000 flowers)	417	730	570	545	525	197	220	168	206	162
Vanda, Miss Joaquim (Million flowers)	55.3	41.3	39.5	24.0	23.0	786	1,160	1,200	950	985
Cut foliage	NA	NA	NA	NA	NA	265	320	455	580	533
Potted orchids (000 pots)	147	116	154	92	147	537	525	688	721	914
Potted foliage	NA	NA	NA	NA	NA	3,522	3,600	3,380	4,275	5,653
Ornamentals and trees	NA	NA	NA	NA	NA	165	60	30	75	100
Unfinished stock and cuttings	NA	NA	NA	NA	NA	747	400	315	250	370
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	1,240	1,804	2,314	2,825	3,642
Total						12,496	13,559	14,316	16,944	19,605

NA = Not available.

[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc., for the island are included in the "All other" category.

FLORICULTURE AND NURSERY PRODUCTS: Kauai Island, 1981-85

Commodity	Number sold					Value of sales				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
						1,000 dollars				
Selected items:										
Anthuriums (000 dozens)	5	3	4	5	40	10	8	7	12	118
Dendrobium, sprays	NA	NA	NA	11	6	[2]	[2]	[2]	56	53
Potted orchids	NA	NA	NA	6	5	[2]	[2]	[2]	39	35
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	730	291	414	681	973
Total						740	299	421	788	1,179

NA = Not available.

[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc., for the island are included in the "All other" category.

[2] Included in "All other" category.

FLORICULTURE AND NURSERY PRODUCTS: Maui/Molokai Islands, 1981-85

Commodity	Number sold					Value of sales				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
						1,000 dollars				
Selected items:										
Carnations, cut (000 dozens)	53	36	72	69	70	114	80	159	162	160
Chrysanthemums, pompon (000 bunches)	45	52	56	42	46	51	58	61	50	80
Protea: (000 stems)										
Pincushion	436	549	435	471	369	154	187	75	100	78
Other	163	315	525	501	515	135	195	325	337	571
Carnation heads (Million flowers)	38.8	32.0	34.0	32.0	29.0	1,291	1,153	1,250	1,065	1,060
Potted foliage	NA	NA	NA	NA	NA	525	640	620	650	615
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	1,709	1,612	1,999	2,182	2,709
Total						3,979	3,925	4,489	4,546	5,273

NA = Not available.

[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc., for the island are included in the "All other" category.

FLORICULTURE AND NURSERY PRODUCTS: Oahu Island, 1981-85

Commodity	Number sold					Value of sales				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
						1,000 dollars				
Selected items:										
Anthuriums, cut (000 dozens)	78	40	75	80	80	246	154	261	276	280
Ginger, red (000 dozens)	38	46	48	53	50	104	147	145	178	135
Gingers, other	NA	NA	NA	NA	NA	10	5	7	6	10
Chrysanthemums, pompon (000 bunches)	332	303	295	315	287	381	336	400	440	503
Cattleyas (000 flowers)	45	50	45	41	46	46	44	40	37	56
Dendrobium, sprays (000 dozens)	65	60	90	162	215	354	349	590	1,001	1,115
Plumeria (Million flowers)	4.0	12.2	10.7	9.4	7.7	91	159	155	154	148
Dendrobiums, for lei (Million flowers)	8.5	5.8	6.5	6.5	10.4	235	154	196	190	253
Pikake (000 strands)	137	118	120	110	105	174	155	159	160	157
Cut foliage	NA	NA	NA	NA	NA	249	237	195	270	258
Potted chrysanthemums (000 pots)	50	73	73	81	92	150	196	235	265	294
Potted orchids (000 pots)	438	344	368	473	368	1,836	1,478	1,711	1,838	2,174
Potted poinsettias (000 pots)	93	105	109	95	134	254	316	354	277	434
Potted foliage	NA	NA	NA	NA	NA	4,173	4,575	6,800	5,100	5,731
Unfinished stock and cuttings	NA	NA	NA	NA	NA	1,933	795	770	1,020	655
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	2,031	3,717	4,921	5,415	5,987
Total						12,267	12,817	16,939	16,627	18,190

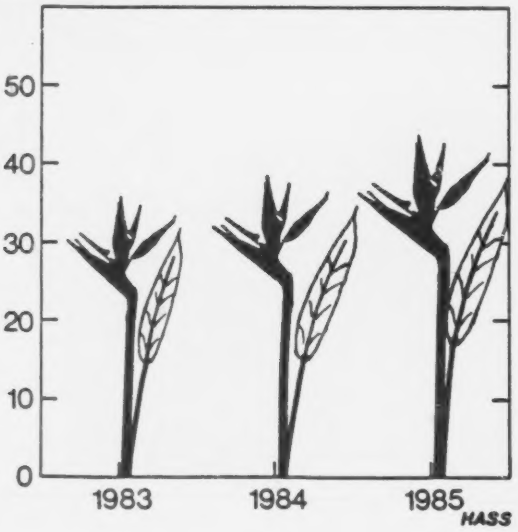
NA = Not available.

[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc., for the island are included in the "All other" category.

FLORICULTURE AND NURSERY PRODUCTS:

VALUE OF SALES,
STATE OF HAWAII, 1983-85

MIL. DOLLARS



FLORICULTURE AND NURSERY PRODUCTS: Number of farms and growing area, by islands, 1981-85

Year	Hawaii	Kauai	Maui	Oahu	State
NUMBER OF FARMS - - Unduplicated					
1981	330	25	85	240	680
1982	310	25	80	235	650
1983	320	25	85	250	680
1984	315	25	80	250	670
1985	**305**	**30**	**85**	**250**	**670**
GREENHOUSE - - 1,000 square feet [1]					
1981	1,202	38	280	775	2,295
1982	1,270	20	191	918	2,399
1983	1,164	15	193	955	2,327
1984	1,195	13	276	930	2,414
1985	**1,439**	**12**	**307**	**1,078**	**2,836**
ARTIFICIAL SHADE STRUCTURE - - 1,000 square feet					
1981	18,529	63	734	3,742	23,068
1982	19,425	182	648	4,871	25,126
1983	19,252	103	958	6,016	26,329
1984	19,264	178	905	6,470	26,817
1985	**19,087**	**244**	**1,286**	**9,026**	**29,643**
NATURAL SHADE AREA - - Acres					
1981	116	6	--	11	133
1982	104	3	--	12	119
1983	98	3	--	5	106
1984	83	4	--	5	92
1985	**82**	**5**	**--**	**4**	**91**
OPEN FIELD - - Acres					
1981	331	19	255	290	895
1982	333	38	243	263	877
1983	420	24	248	330	1,022
1984	446	30	250	233	959
1985	**413**	**26**	**259**	**226**	**924**
TOTAL AREA - - Acres					
1981	900	27	278	405	1,610
1982	912	46	262	408	1,628
1983	987	30	274	495	1,786
1984	994	38	277	406	1,715
1985	**966**	**37**	**296**	**462**	**1,761**

-- = Less than 500 square feet.

[1] Glass or glass substitute structure.

ANTHURIUMS: Area used for production, by islands, 1981-85

Year	Hawaii	Kauai	Maui	Oahu	State
	1,000 square feet				
	ARTIFICIAL SHADE STRUCTURE				
1981	15,300	21	3	386	15,710
1982	15,800	15	3	350	16,168
1983	16,200	22	3	400	16,625
1984	16,000	23	23	400	16,446
1985	**15,750**	**25**	**6**	**415**	**16,196**
	NATURAL SHADE AREA				
1981	4,574	44	0	--	4,618
1982	4,356	--	--	44	4,400
1983	4,250	9	4	20	4,283
1984	3,500	17	4	--	3,521
1985	**3,400**	**26**	**13**	**--**	**3,439**
	TOTAL ARTIFICIAL AND NATURAL SHADE				
1981	19,874	65	3	386	20,328
1982	20,156	15	3	394	20,568
1983	20,450	31	7	420	20,908
1984	19,500	40	27	400	19,967
1985	**19,150**	**51**	**19**	**415**	**19,635**

-- = Less than 500 square feet.

FLORICULTURE AND NURSERY PRODUCTS: Area used for production, State of Hawaii, 1985 [1]

Area used for	Greenhouse-Glass or glass substitute	Artificial shade-Saran, lath, etc.	Natural shade-Hapu'u, citrus, etc.	Open field
	1,000 square feet		Acres	
Anthuriums	--	16,196	78	--
Carnations	235	3	--	37
Chrysanthemums, potted	150	70	--	1
Dendrobium orchids	499	2,678	--	4
Orchids, all other [2]	490	435	3	59
Poinsettias	180	95	--	4
Potted foliage	408	8,305	1	160
Protea	--	--	--	125
Roses	538	130	--	5
All other flowers and nursery products	336	1,731	9	529
TOTAL	2,836	29,643	91	924

-- = Less than 500 square feet.

[1] Area used for production includes growing area not in full production or not having sales in 1985.

[2] Includes vandas.

ANTHURIUMS: Mainland shipments, percent of flowers sold by size, 1981-85

Year	Miniature	Small	Medium	Large	Extra-large
1981	20	25	31	22	2
1982	19	25	31	23	2
1983	19	26	32	20	3
1984	23	25	30	19	3
1985	**21**	**23**	**31**	**21**	**4**

ANTHURIUMS: Foreign shipments, by destination, 1981-85

Destination	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 dozens												
Australia:													
1981. . . .	2.5	3.8	3.8	6.3	5.0	4.0	4.0	3.7	3.5	3.9	3.0	4.2	47.7
1982. . . .	2.0	3.8	4.1	7.1	3.0	3.0	4.2	3.7	3.1	2.0	1.7	2.5	40.2
1983. . . .	1.9	3.4	4.1	3.6	1.7	2.7	3.1	2.6	2.6	1.9	2.4	2.6	32.6
1984. . . .	1.2	3.2	2.7	3.4	5.3	2.8	3.5	3.5	3.0	2.9	2.8	2.6	36.9
1985. . . .	**.9**	**1.5**	**.6**	**.7**	**1.7**	**.2**	**.6**	**.2**	**.1**	*	*	*	**6.5**
Italy:													
1981. . . .	49.2	37.3	37.8	46.8	25.2	24.9	33.8	28.7	39.3	64.1	33.2	40.1	460.4
1982. . . .	33.7	35.2	31.4	48.4	20.4	25.0	33.0	30.0	46.9	62.2	30.8	42.4	439.4
1983. . . .	26.4	28.7	30.4	29.7	18.0	33.5	22.4	32.8	39.9	57.9	32.5	32.2	384.4
1984. . . .	26.5	28.6	27.2	33.4	27.3	23.0	16.9	34.2	32.3	59.7	25.8	26.0	360.9
1985. . . .	**15.9**	**12.3**	**13.8**	**10.3**	**16.1**	**12.3**	**11.6**	**15.9**	**18.3**	**42.7**	**13.6**	**15.3**	**198.1**
Japan:													
1981. . . .	17.9	9.3	14.8	16.7	33.6	55.5	83.3	57.1	54.3	45.4	35.8	44.3	468.0
1982. . . .	19.6	7.7	17.2	14.5	27.6	35.4	53.7	52.0	44.8	40.5	41.1	30.6	384.7
1983. . . .	16.8	3.2	6.8	13.7	22.8	33.4	56.3	55.1	56.0	54.5	48.9	40.1	407.6
1984. . . .	13.6	4.5	20.2	25.4	34.6	44.5	43.0	56.8	41.4	40.6	29.8	18.0	372.4
1985. . . .	**6.1**	**3.5**	**8.9**	**15.1**	**26.9**	**35.1**	**58.3**	**62.5**	**47.7**	**45.8**	**37.8**	**29.3**	**377.0**
Switzerland:													
1981. . . .	10.7	11.9	9.5	15.1	9.1	6.2	3.5	3.9	4.8	10.3	11.5	14.3	110.8
1982. . . .	12.1	14.8	12.3	13.3	7.1	5.9	2.6	5.2	9.0	8.5	11.1	15.5	117.4
1983. . . .	10.1	12.4	14.2	10.5	7.9	5.6	1.2	4.6	5.9	6.8	9.6	9.3	98.1
1984. . . .	7.4	12.8	7.6	8.8	8.3	5.1	.6	3.6	5.7	7.9	6.2	8.1	82.1
1985. . . .	**5.2**	**7.0**	**3.4**	**1.7**	**5.2**	**1.3**	**.4**	**.6**	**3.4**	**1.3**	**1.8**	**3.1**	**34.4**
West Germany:													
1981. . . .	21.9	16.2	15.9	22.9	11.2	4.1	3.7	3.0	2.7	3.4	8.7	16.3	130.0
1982. . . .	10.8	9.4	7.6	11.3	5.4	5.1	3.9	2.5	2.3	2.1	1.3	3.1	64.8
1983. . . .	1.6	.8	1.3	2.4	1.2	1.3	.8	--	0.0	1.1	1.1	.7	12.3
1984. . . .	1.0	--	.2	.7	.4	--	--	--	--	--	--	--	2.3
1985[1] . . .													
All other:													
1981. . . .	3.0	3.1	4.1	5.1	3.3	1.8	3.1	2.1	1.7	2.1	2.5	5.4	37.3
1982. . . .	2.6	4.2	4.1	3.6	2.7	2.6	3.5	3.5	3.3	4.1	5.9	10.1	50.2
1983. . . .	9.2	5.0	6.5	4.5	4.6	3.2	3.5	3.0	3.4	6.5	7.2	8.2	64.8
1984. . . .	6.2	4.4	4.4	2.4	3.2	2.3	3.3	2.9	3.0	2.5	3.0	2.8	40.4
1985. . . .	**2.9**	**4.1**	**3.0**	**2.8**	**3.8**	**2.8**	**3.2**	**3.3**	**4.5**	**4.4**	**4.0**	**4.2**	**43.0**

* = Less than 500.

-- = Negligible.

[1] Included in "All other" category.

DENDROBIUM ORCHIDS: Sales and value, 1981-85

Year	Individual blossoms		Cut sprays		Potted plants				Total value
					In bud/bloom		Community pots		
	Number sold	Value	Number sold	Value	Number sold	Value	Number sold	Value	
	Million blooms	1,000 dollars	1,000 dozens	1,000 dollars	1,000 pots	1,000 dollars	1,000 pots	1,000 dollars	1,000 dollars
					STATE[1]				
1981 . .	8.8	244	83	431	173	569	79	301	1,545
1982 . .	6.5	179	78	440	160	622	26	155	1,396
1983 . .	7.6	234	123	774	201	873	28	159	2,040
1984 . .	10.5	314	208	1,278	185	709	23	145	2,446
1985 . .	18.0	458	291	1,687	146	802	55	259	3,206
					OAHU				
1981 . .	8.5	235	65	354	74	266	71	286	1,141
1982 . .	5.8	154	60	349	86	280	25	148	931
1983 . .	6.5	196	90	590	120	465	26	147	1,398
1984 . .	6.5	190	162	1,001	136	476	22	132	1,799
1985 . .	10.4	253	215	1,115	100	492	52	242	2,102

[1] Hawaii, Kauai, and Maui combined in State total to avoid disclosure of individual operations.

DENDROBIUM ORCHIDS: Production area, 1985 with 1986 intentions[1]

Type of shade	Used in 1985			Intentions for 1986			
	Cut sprays, blossoms	Potted plants	Total	Cut sprays, blossoms	Potted plants	Total	Percent of 1985
				1,000 square feet			
				STATE[2]			
Glass or glass substitute	245	254	499				
Saran.	2,212	466	2,678				
Natural shade and open field	31	152	183				
Total	2,488	872	3,360	2,800	1,022	3,822	114
				OAHU			
Glass or glass substitute	125	130	255				
Saran.	1,700	350	2,050				
Natural shade and open field	18	17	35				
Total	1,843	497	2,340				

[1] Total area devoted to crop. May include area not yet producing.

[2] Hawaii, Kauai, and Maui combined in State total to avoid disclosure of individual operations.

DENDROBIUM ORCHIDS: Percent of cut sprays sold by quarter

Year	January-March	April-June	July-September	October-December
		Percent		
1981	12	23	37	28
1982	11	24	38	27
1983	11	24	32	33
1984	11	33	32	24
1985	12	24	35	29

POINSETTIAS: Number of growers, pots sold by size, and value, 1981-85

Year	Growers	Pots sold by size				Value
		4 inches and under	5-6½ inches	All other sizes [1]	Total	
	Number					Dollars
	STATE					
1981	25	20,000	109,500	7,000	136,500	430,000
1982	26	30,000	111,000	8,000	149,000	474,000
1983	25	21,000	120,000	9,000	150,000	513,000
1984	29	26,000	107,000	6,000	139,000	453,000
1985	**38**	**27,000**	**151,000**	**14,000**	**192,000**	**618,000**
	OAHU					
1981	16	[2]	[2]	[2]	93,000	254,000
1982	18	[2]	[2]	[2]	105,000	316,000
1983	17	[2]	[2]	[2]	109,000	354,000
1984	18	[2]	[2]	[2]	95,000	277,000
1985	**21**	[2]	[2]	[2]	**134,000**	**434,000**

[1] Includes hanging baskets.
[2] Not shown separately to avoid disclosure of individual operations.

POINSETTIAS: Percent of flowers grown by type of growing area, 1981-85

Year	Saran	Glass or glass substitute	Open field
1981	28	46	26
1982	18	53	29
1983	23	44	33
1984	26	40	34
1985	**20**	**39**	**41**

POINSETTIAS: Percent of flowers grown by varieties, 1981-85

Year	C-1	V-10	V-14	Others
1981	36	33	10	21
1982	32	32	12	24
1983	22	48	12	18
1984	16	54	20	10
1985	**15**	**59**	**16**	**10**

POINSETTIAS: 1985 intentions, with comparisons

Year	Grower intentions spring of year	Pots set [1]	Pots sold
	Number		
1981	152,000	161,000	136,500
1982	156,000	170,000	149,000
1983	176,000	205,000	150,000
1984	NA	210,000	139,000
1985	**NA**	**231,000**	**192,000**

NA = Not available.

[1] Includes small pots eventually used for hanging baskets and counted as only one pot.

FLORICULTURE AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 1981-85

Commodity	1981	1982	1983	1984	1985
	1,000 dollars [1]				
Anthuriums, cut	6,237	6,370	7,005	7,050	7,581
Red Ginger	[2]	91	145	240	270
Protea	256	475	505	550	560
Birds of Paradise	[2]	[2]	[2]	[2]	175
Heliconia	[2]	[2]	[2]	[2]	150
Cattleya Orchids	52	117	120	115	232
Cymbidium Orchids	98	175	125	121	155
Dendrobium Orchids, cut sprays	162	190	439	846	1,031
Potted orchid plants	1,319	968	1,531	1,510	1,930
Cut foliage	400	410	460	670	550
Potted foliage plants	5,838	6,912	9,070	8,650	9,550
Unfinished potted foliage stock	[2]	802	1,360	750	1,160
All other flowers and nursery products	1,489	1,399	1,240	1,108	940
TOTAL	15,976	17,909	22,000	21,610	24,284

[1] Based on F.O.B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, lei, etc., purchased within the State and hand carried out.

[2] Not shown separately.

ANTHURIUMS: Mainland and foreign shipments from the Island of Hawaii, 1981-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 dozens												
Mainland:													
1981	32.7	44.9	36.9	45.1	44.0	41.4	42.3	43.4	46.1	45.4	44.2	61.3	527.7
1982	48.7	60.9	44.5	48.6	50.9	43.0	46.6	57.3	55.2	54.5	54.0	82.8	647.0
1983	59.7	73.9	48.5	54.1	54.3	52.3	52.1	56.0	59.1	58.8	64.1	87.4	720.3
1984	67.0	92.6	61.8	67.6	76.4	74.8	59.2	65.9	60.9	66.4	75.9	97.9	866.4
1985	**70.1**	**93.0**	**62.9**	**66.9**	**81.6**	**65.7**	**71.0**	**80.0**	**79.0**	**80.0**	**84.0**	**118.0**	**952.2**
Foreign:													
1981	105.2	81.6	85.9	112.9	87.4	96.5	131.4	98.5	106.3	129.2	94.7	124.6	1,254.2
1982	80.8	75.1	76.7	98.2	66.2	77.0	100.9	96.9	109.4	119.4	91.9	104.2	1,096.7
1983	66.0	[1]53.5	63.3	[1]64.4	56.2	79.7	87.3	98.1	107.8	128.7	101.7	93.1	999.8
1984	55.9	53.5	62.3	74.1	79.1	77.7	67.3	101.0	85.4	113.6	67.6	57.5	895.0
1985	**31.0**	**28.4**	**29.7**	**30.6**	**53.7**	**51.7**	**74.1**	**82.5**	**74.0**	**94.2**	**57.2**	**51.9**	**659.0**
Total shipments:													
1981	137.9	126.5	122.8	158.0	131.4	137.9	173.7	141.9	152.4	174.6	138.9	185.9	1,781.9
1982	129.5	136.0	121.2	146.8	117.1	120.0	147.5	154.2	164.6	173.9	145.9	187.0	1,743.7
1983	125.7	127.5	111.8	118.4	110.5	132.0	139.4	154.1	166.9	187.5	165.8	180.5	1,720.1
1984	122.9	146.1	124.1	141.7	155.5	152.5	126.5	166.9	146.3	180.0	143.5	155.4	1,761.4
1985	**101.1**	**121.4**	**92.6**	**97.5**	**135.3**	**117.4**	**145.1**	**162.5**	**153.0**	**174.2**	**141.2**	**169.9**	**1,611.2**

[1] Revised.

DENDROBIUM ORCHIDS: Out-of-State sales, 1981-85

Year	Cut sprays		Potted plants [1]		Total value
	Number	Value	Number	Value	
	Dozens	Dollars	Pots	Dollars	Dollars
1981	28,600	162,400	68,600	264,000	426,400
1982	34,000	189,600	57,100	266,500	456,100
1983	59,000	439,000	80,700	431,000	870,000
1984	120,000	846,000	85,100	459,000	1,305,000
1985	**152,000**	**1,031,000**	**107,000**	**645,000**	**1,676,000**

[1] Includes community pots.

COFFEE: Number of farms, acreage, yield, marketings, price, and value, State of Hawaii, 1981-85[1]

Year[2]	Farms	Total acreage in crop	Acreage harvested	Yield per harvest acre	Marketings (parchment)	Farm price (parchment)	Value of sales
	Number	---------- 1,000 acres ----------		---------------- 1,000 pounds ----------------		Dollars per pound	1,000 dollars
1981-82. . .	625	1.8	1.7	1.3	2,210	2.00	4,420
1982-83. . .	620	2.0	1.9	0.5	990	2.15	2,129
1983-84. . .	610	2.0	1.8	1.6	2,800	2.25	6,300
1984-85. . .	615	2.0	1.7	1.0	1,750	2.75	4,812
1985-86. . .	**620**	**2.1**	**1.7**	**1.0**	**1,700**	**2.75**	**4,675**

[1] State production all on Island of Hawaii.
[2] Harvesting normally begins in September and extends to the early part of the following year.

TARO: Number of farms, acreage, marketings, price, and value, by islands, 1981-85

Year	Farms	Acreage in crop[1]			Marketings			Farm price			Value of sales
		Poi taro	Chinese taro	Total	Fresh	Processed	Total	Poi taro	Chinese taro	All	
	Number	---------------- Acres ----------------			-------- 1,000 pounds --------			-------- Cents per pound --------			1,000 dollars
					STATE						
1981 . . .	123	340		340	215	5,885	6,100	21.4		21.4	1,305
1982 . . .	127	340	10	350	307	6,153	6,460	22.4	NA	22.4	1,447
1983 . . .	155	350	20	370	346	5,094	5,440	22.2	35.0	22.6	1,229
1984 . . .	137	350	20	370	290	6,020	6,310	21.4	34.2	21.9	1,382
1985 . . .	**155**	**340**	**60**	**400**	**590**	**6,270**	**6,860**	**21.6**	**37.9**	**23.0**	**1,578**
					HAWAII						
1981 . . .	40	45		45	100	350	450	23.1		23.1	104
1982 . . .	45	45	10	55	221	659	880	22.4	NA	22.4	197
1983 . . .	67	45	20	65	228	512	740	22.5	35.0	25.0	185
1984 . . .	57	45	20	65	180	615	795	23.4	34.2	25.8	205
1985 . . .	**72**	**35**	**50**	**85**	**390**	**620**	**1,010**	**23.4**	**37.2**	**28.7**	**290**
					KAUAI						
1981 . . .	50	210		210	100	4,350	4,450	21.0		21.0	934
1982 . . .	49	210		210	56	4,304	4,360	22.3	NA	22.3	972
1983 . . .	54	215	[2]	215	39	3,411	3,450	22.1	[3]	22.1	762
1984 . . .	50	225	[2]	225	40	4,310	4,350	21.1	[3]	21.1	918
1985 . . .	**48**	**210**	[2]	**210**	**60**	**4,720**	**4,780**	**21.4**	[3]	**21.6**	**1,032**
					MAUI/MOLOKAI/OAHU[4]						
1981 . . .	33	85		85	15	1,185	1,200	23.3		22.3	267
1982 . . .	33	85	[5]	85	30	1,190	1,220	22.8	NA	22.8	278
1983 . . .	34	90	[5]	90	79	1,171	1,250	22.6	[3]	22.6	282
1984 . . .	30	80	[5]	80	70	1,095	1,165	21.3	[3]	22.2	259
1985 . . .	**35**	**95**	**10**	**105**	**140**	**930**	**1,070**	**21.4**	**40.5**	**23.9**	**256**

[1] Survey conducted in November each year. Does not include acreage used primarily for leaf production.
[2] Kauai combined with Maui, Molokai, and Oahu to avoid disclosure of individual operations.
[3] Not shown separately but accounted for in State average.
[4] Oahu combined with Maui and Molokai to avoid disclosure of individual operations.
[5] Less than 5 acres.

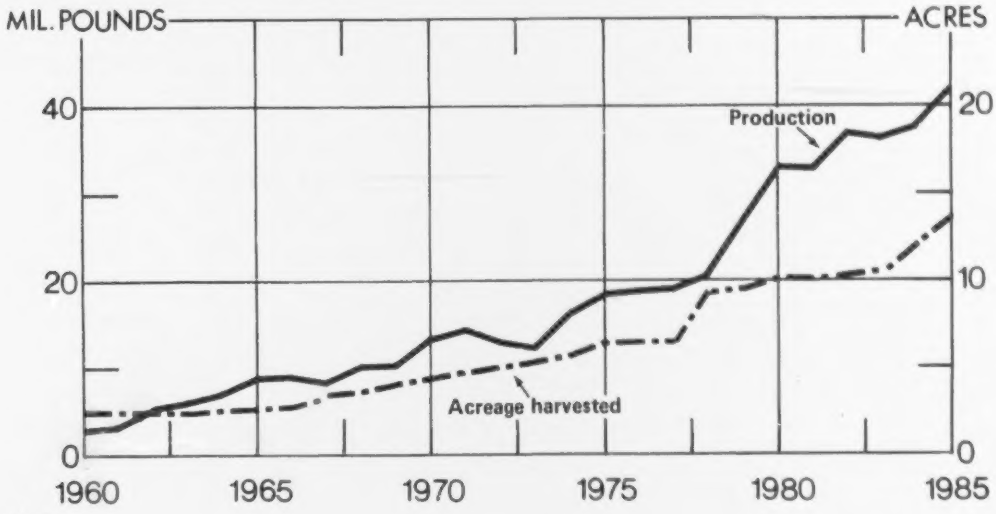
MACADAMIA NUTS: Number of farms, acreage, yield, marketings, price, and value, by islands, 1981-85

Crop year[1]	Farms	Acreage[2]		Yield per acre (bearing)	Marketings (in shell)[3]	Average moisture		Farm price	Value of sales
		In crop	Bearing			Entire crop	Purchases		
	Number	-------- Acres --------		-------- 1,000 pounds --------		-------- Percent --------		Cents per pound	1,000 dollars
					STATE[4]				
1981 . .	490	13,800	10,000	3.3	33,360	19.8	16.1	79.3	26,454
1982 . .	550	15,000	10,200	3.6	36,720	20.5	16.3	73.9	27,136
1983 . .	600	15,800	10,600	3.4	36,420	18.3	18.6	65.7	23,928
1984 . .	605	16,900	12,000	3.1	37,700	19.2	19.7	69.2	26,088
1985 . .	**610**	**20,000**	**13,500**	**3.1**	**42,000**	**19.7**	**21.5**	**72.5**	**30,450**
					HAWAII				
1981 . .	485	12,600	9,950	3.3	33,240	NA	NA	79.3	26,355
1982 . .	545	13,780	10,150	3.6	36,600	NA	NA	73.9	27,047
1983 . .	555	14,530	10,170	3.6	36,200	NA	NA	65.7	23,783
1984 . .	595	15,460	11,030	3.4	37,500	NA	NA	69.2	25,950
1985 . .	**600**	**18,190**	**12,250**	**3.4**	**41,400**	**NA**	**NA**	**72.5**	**30,015**
					KAUAI/MAUI/OAHU[5]				
1981 . .	5	1,220	50	2.4	120	NA	NA	82.5	99
1982 . .	5	1,220	50	2.4	120	NA	NA	74.2	89
1983 . .	5	1,270	430	.5	220	NA	NA	66.1	145
1984 . .	10	1,440	970	.2	200	NA	NA	69.0	138
1985 . .	**10**	**1,810**	**1,250**	**.5**	**600**	**NA**	**NA**	**69.0**	**435**

NA = Not available.

[1] Year ends June 30 of following year.
[2] At end of year.
[3] Includes home use.
[4] Sum of island estimates may not add to State total due to rounding.
[5] Kauai and Oahu combined with Maui to avoid disclosure of individual operations.

MACADAMIA NUTS: Acreage and Production, State of Hawaii, 1960-85



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PINEAPPLES: Number of farms, acreage, production, disposition, price, and value, State of Hawaii, 1981-85

Year	Farms	Acreage used for crop	Production (fresh weight)	Disposition		Farm price		Value of production (fresh weight)
				Processed (fresh weight)	Fresh market[1]	Processed[2]	Fresh market[3]	
	Number	1,000 acres	1,000 tons	1,000 tons	1,000 tons	Dollars per ton	Dollars per ton	Thousand dollars
1981 . .	18	41.0	636	519	117	85	390	89,745
1982 . .	18	36.0	670	542	128	82	390	94,364
1983 . .	18	36.0	722	602	120	88	395	100,376
1984 . .	18	35.0	600	481	119	88	400	89,928
1985 . .	18	34.5	565	441	124	90	410	90,530

[1] Beginning 1983 excludes sales of fresh pineapple without tops. Included in processing utilization.
[2] Estimate to reflect value of fresh fruit delivered processing plant door.
[3] Estimate to reflect value at wholesale establishments for local sales and shipper dock for Mainland and foreign sales.

PINEAPPLES: Processor production, fresh sales, and value, State of Hawaii, 1981-85

Year	Processor production[1]				Fresh market sales		
	Canned fruit (24/2½-45 lb. cases)	Canned juice (24/2½-42.5 lb. cases)	Frozen concentrate (24/2½-42.5 lb. cases)	Value[2] Canned fruit and juices	Quantity Local[3]	Quantity Shipped out-of-State[4]	Value[5]
	1,000 cases	1,000 cases	1,000 cases	Million dollars	1,000 tons	1,000 tons	Thousand dollars
1981 . .	6,830	6,320	200	172.0	25.8	91.1	45,630
1982 . .	NA	NA	NA	156.1	26.5	101.5	49,920
1983 . .	NA	NA	NA	171.6	17.7	102.3	47,400
1984 . .	NA	NA	NA	202.0	18.0	101.0	47,600
1985 . .	NA	NA	NA	171.7	17.5	106.5	50,840

[1] Pineapple Growers Association of Hawaii.
[2] Value of canned fruit and juices and by products shipped out-of-State and sold within State.
[3] Beginning 1983 excludes sales of fresh pineapple without tops.
[4] Market News Service, Hawaii Department of Agriculture. Includes all destinations.
[5] Value FAS shipping point for outshipments, delivered wholesalers local sales.

PINEAPPLES: Outshipments of fresh pineapples, State of Hawaii, 1981-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 pounds												
1981. . .	13,290	12,411	14,706	18,021	16,906	18,978	22,599	10,053	12,512	15,036	13,931	13,662	182,102
1982. . .	15,491	15,416	21,352	19,654	18,195	21,275	20,062	16,086	16,087	11,917	12,859	14,687	203,081
1983. . .	15,701	13,419	17,251	16,911	19,142	19,506	19,876	19,685	15,415	16,712	16,619	14,300	204,537
1984. . .	16,572	18,450	20,535	18,272	20,267	20,301	17,472	15,885	12,423	15,175	14,030	12,562	201,944
1985. . .	**16,975**	**15,160**	**21,017**	**19,298**	**18,708**	**20,534**	**19,354**	**19,114**	**12,155**	**20,715**	**14,729**	**14,968**	**212,727**

Source of outshipment data: Market News Service, Hawaii Department of Agriculture.

PASSION FRUIT: Number of farms, acreage, quantity processed, price, and value, State of Hawaii, 1981-85

Year	Farms	Cultivated acreage [1]		Quantity processed [2]	Average price	Value of sales [2]
		In crop	Bearing			
	Number	Acres	Acres	1,000 pounds	Cents per pound	1,000 dollars
1981 . .	4	70	50	1,470	11.1	163
1982 . .	9	70	60	2,750	12.1	333
1983 . .	17	80	35	1,780	10.1	180
1984 . .	21	100	40	785	12.1	95
1985 . .	19	60	25	820	12.3	101

[1] At end of year.
[2] Includes wild and cultivated production.

GUAVAS: Total processed, farm production, number of farms, acreage, price, and value, State of Hawaii, 1981-85

Year	Total delivered to processors [1]			Farm production					
	Quantity processed	Average price	Value of sales	Farms	Acreage in crop	Acreage harvested	Production	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	Number	Acres	Acres	1,000 pounds	Cents per pound	1,000 dollars
					STATE				
1981	7,290	10.8	787	97	935	620	6,520	11.0	717
1982	7,140	9.7	693	91	885	585	6,730	9.7	653
1983	8,850	8.9	788	117	965	730	7,700	8.8	678
1984	7,000	9.8	686	107	875	610	6,740	9.8	661
1985	9,530	10.2	972	100	[2] 920	680	8,890	10.2	907
					HAWAII				
1981	3,560	11.0	392	87	450	330	3,530	11.0	388
1982	2,130	9.5	202	81	410	225	2,110	9.5	200
1983	3,270	8.4	275	103	460	280	3,250	8.4	273
1984	3,630	9.8	356	95	370	250	3,610	9.8	354
1985	3,170	10.0	317	91	[2] 330	200	3,050	10.0	305
					KAUAI/MAUI/MOLOKAI/OAHU [3]				
1981	3,730	10.6	395	10	485	290	2,990	11.0	329
1982	5,010	9.8	491	10	475	360	4,620	9.8	453
1983	5,580	9.2	513	14	505	450	4,450	9.1	405
1984	3,370	9.8	330	12	505	360	3,130	9.8	307
1985	6,360	10.3	655	9	[2] 590	480	5,840	10.3	602

[1] Fruit allocated to island of production not island where processed. Includes wild and cultivated production.
[2] Includes planting intentions.
[3] Kauai/Maui/Molokai/Oahu combined to avoid disclosure of individual operations.

GUAVAS: Quantity, price, and value, State of Hawaii, 1981-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual total [1]	Average price [2]	Value
	1,000 pounds													Cents per lb.	1,000 dollars
1981. .	222	263	389	671	791	398	617	1,012	1,355	805	607	160	7,290	10.8	787
1982. .	490	1,010	160	465	210	385	575	990	1,175	860	485	335	7,140	9.7	693
1983. .	260	180	135	170	105	70	825	1,135	1,450	2,270	1,530	720	8,850	8.9	788
1984. .	325	355	345	365	530	570	780	1,165	775	645	595	550	7,000	9.8	686
1985. .	**345**	**235**	**155**	**320**	**490**	**425**	**480**	**1,040**	**1,840**	**1,255**	**1,840**	**1,105**	**9,530**	**10.2**	**972**

[1] Sum of monthly estimates may not add to annual total due to rounding.
[2] Equivalent F.O.B. plant, island of production. Prices for guavas are averages for wild and cultivated fruit.

BANANAS: Number of farms, acreage, yield, production, price, and value, by islands, 1981-85

Year	Farms	Acreage		Yield per acre (harvested)	Production	Farm price	Value of sales
		In crop[1]	Harvested				
	Number	Acres		1,000 pounds		Cents per pound	1,000 dollars
				STATE[2]			
1981 . .	152	760	650	9.2	6,000	25.7	1,542
1982 . .	179	940	720	8.0	5,750	28.6	1,645
1983 . .	183	1,100	860	5.2	4,470	31.2	1,395
1984 . .	180	990	870	10.2	8,900	30.0	2,670
1985 . .	**178**	**1,060**	**840**	**9.7**	**8,160**	**30.3**	**2,472**
				HAWAII			
1981 . .	17	140	130	16.1	2,090	20.0	418
1982 . .	29	200	130	19.3	2,510	23.1	580
1983 . .	31	365	205	12.6	2,580	26.4	681
1984 . .	32	330	305	10.3	3,140	28.3	889
1985	**35**	**385**	**260**	**12.5**	**3,240**	**27.5**	**891**
				KAUAI			
1981 . .	26	75	60	16.7	1,000	23.4	234
1982 . .	32	110	50	19.1	954	29.1	278
1983 . .	33	115	95	4.9	470	31.0	146
1984 . .	35	135	110	18.9	2,080	23.6	491
1985 . .	**34**	**155**	**145**	**13.7**	**1,990**	**26.5**	**527**
				MAUI/MOLOKAI			
1981 . .	15	55	35	5.7	200	24.8	50
1982 . .	18	90	70	3.4	241	26.8	65
1983 . .	21	80	65	4.6	300	25.8	77
1984 . .	20	75	65	8.2	530	27.7	147
1985 . .	**19**	**65**	**45**	**7.2**	**325**	**29.2**	**95**
				OAHU			
1981 . .	94	490	425	6.4	2,710	31.0	840
1982 . .	100	540	470	4.4	2,045	35.3	722
1983 . .	98	540	495	2.3	1,120	43.8	491
1984 . .	93	450	390	8.1	3,150	36.3	1,143
1985 . .	**90**	**455**	**390**	**6.7**	**2,605**	**36.8**	**959**

[1] As of February following year, i.e. acreage data shown for 1985 is as of February 1, 1986.
[2] Island totals may not add to State totals due to rounding.

BANANAS: Acreage by variety, State of Hawaii, February 1, 1986

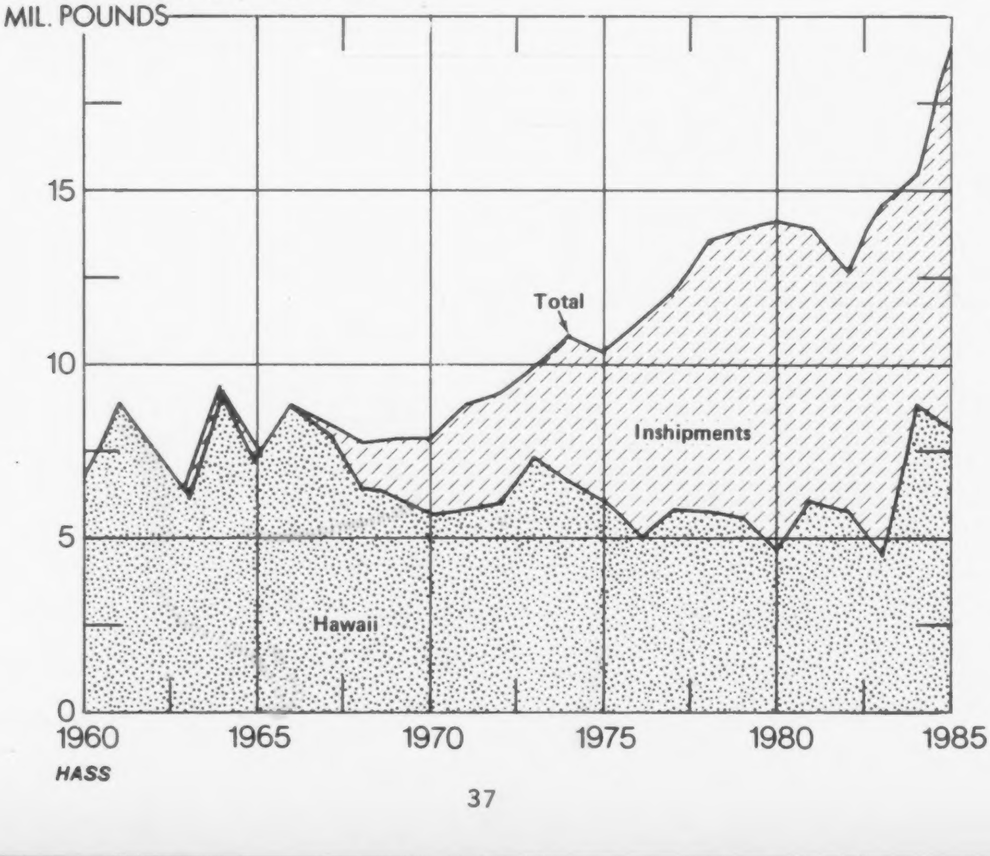
Island	Variety					
	Brazilian[1] (Apple)	Bluefields[2] (Gros Michel)	Cavendish			Others[4]
			Chinese	Williams Hybrid	Robusta[3]	
Hawaii. . . .	20	10	*	285	60	10
Kauai.	40	15	*	100	0	*
Maui/ Molokai. .	15	20	0	20	10	*
Oahu	305	*	20	105	5	20
Total . . .	380	45	20	510	75	30

* = Less than 5 acres. [1] Includes Dwarf "Apple". [2] Includes "Cocos" or Dwarf Bluefields. [3] Includes Taiwan. [4] Includes cooking and Lady Finger.

BANANAS: Monthly production, total acreage in crop, and total acreage harvested, by varieties, and price, State of Hawaii, 1981-85

Year	Production													Acreage	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average	In crop	Harvested
	1,000 pounds													Acres	
	BRAZILIAN (APPLE)														
1981. . .	127	156	193	146	104	106	116	118	142	164	130	128	1,630	340	305
1982. . .	104	115	107	93	91	80	95	131	159	131	172	101	1,379	415	345
1983. . .	44	30	25	24	21	23	29	43	49	62	80	110	540	425	380
1984. . .	139	183	276	266	204	177	186	170	172	209	139	89	2,210	365	305
1985. . .	**122**	**73**	**97**	**86**	**80**	**81**	**135**	**249**	**257**	**248**	**228**	**214**	**1,870**	**380**	**310**
	BLUEFIELDS (GROS MICHEL)														
1981. . .	44	39	36	40	41	44	49	56	60	60	54	57	580	60	50
1982. . .	34	32	29	30	29	36	36	43	64	60	54	37	484	65	55
1983. . .	30	25	26	27	24	27	27	24	26	29	35	40	340	80	60
1984. . .	38	43	40	29	41	37	55	44	41	45	44	33	490	60	55
1985. . .	**32**	**28**	**18**	**20**	**17**	**21**	**29**	**25**	**28**	**25**	**22**	**25**	**290**	**45**	**40**
	CAVENDISH (CHINESE, ROBUSTA, AND WILLIAMS HYBRID)														
1981. . .	428	351	323	220	252	283	288	277	292	373	349	354	3,790	355	290
1982. . .	303	293	274	251	274	289	319	348	402	423	386	325	3,887	450	315
1983. . .	323	324	299	204	147	172	232	317	272	318	452	530	3,590	585	415
1984. . .	456	456	536	381	514	474	485	499	514	695	638	552	6,200	545	495
1985. . .	**453**	**392**	**346**	**345**	**332**	**471**	**611**	**614**	**591**	**641**	**609**	**595**	**6,000**	**605**	**450**
	FARM PRICE FOR FRESH MARKET														
	Cents per pound														
1981. . .	23.8	25.2	26.4	26.7	25.2	26.4	26.3	26.7	25.9	25.5	25.4	25.5	25.7		
1982. . .	25.2	26.5	27.0	27.0	26.2	26.2	28.1	30.5	30.3	30.0	31.6	30.5	28.6		
1983. . .	29.8	28.4	27.7	28.7	28.6	29.8	31.9	33.8	33.5	32.9	32.3	32.7	31.2		
1984. . .	31.5	31.3	30.7	30.0	29.3	29.5	29.3	29.3	29.7	30.3	29.0	29.9	30.0		
1985. . .	**30.4**	**30.0**	**30.7**	**31.0**	**30.9**	**30.4**	**30.0**	**32.0**	**31.5**	**29.3**	**29.0**	**29.1**	**30.3**		

MARKET SUPPLY: Fresh Market Bananas, State of Hawaii, 1960-85



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PAPAYAS: Number of farms, acreage, yield, utilization, price, and value, by islands, 1981-85 [1]

Year	Farms [2]	Acreage harvested [2]	Yield per acre [3]	Utilized production	Utilization		Price per pound			Value of utilized production
					Fresh	Processed	Fresh	Processed [4]	All	
	Number	Acres	1,000 pounds				Cents			1,000 dollars
					STATE					
1981 . .	211	2,110	31.5	66,390	58,170	8,220	20.9	3.1	18.7	12,413
1982 . .	214	2,170	24.3	52,750	44,770	7,980	25.1	3.1	21.8	11,484
1983 . .	227	2,120	29.0	61,400	46,300	15,100	23.6	4.4	18.9	11,591
1984 . .	306	2,590	31.1	80,500	67,000	13,500	13.1	3.1	11.4	9,196
1985 . .	315	2,650	22.8	60,400	49,250	11,150	16.9	2.3	14.2	8,579
					HAWAII					
1981 . .	116	1,785	32.1	57,320	49,135	8,185	20.4		18.7	10,278
1982 . .	123	1,950	24.6	47,900	39,940	7,960	24.8		21.2	10,152
1983 . .	140	2,005	29.4	59,040	44,050	14,990	23.3		18.5	10,912
1984 . .	219	2,165	30.6	66,140	52,680	13,460	13.2		11.4	7,531
1985 . .	238	2,350	23.6	55,375	44,285	11,090	16.4		13.6	7,506
					KAUAI					
1981 . .	42	245	29.4	7,204	7,169	35	[5]21.2		[5]21.5	[5]1,567
1982 . .	42	130	24.8	3,220	3,200	20	[5]23.8		[5]23.7	[5]889
1983 . .	41	25	31.8	795	780	15	[5]25.3		[5]25.1	[5]350
1984 . .	42	320	36.1	11,554	11,554	0	[5]10.3		[5]10.3	[5]1,236
1985 . .	36	215	15.7	3,365	3,365	0	[5]19.3		[5]19.3	[5]662
					MAUI/MOLOKAI					
1981 . .	4	10	21.3	213	213	0	[5]		[5]	[5]
1982 . .	4	20	26.5	530	530	0	[5]		[5]	[5]
1983 . .	5	25	24.0	600	600	0	[5]		[5]	[5]
1984 . .	5	20	21.1	420	420	0	[5]		[5]	[5]
1985 . .	4	5	13.0	65	65	0	[5]		[5]	[5]
					OAHU					
1981 . .	49	70	23.6	1,653	1,653	0	33.8		33.8	559
1982 . .	45	70	15.7	1,100	1,100	0	39.7		39.7	437
1983 . .	41	70	13.8	965	870	95	37.0		34.1	329
1984 . .	40	85	28.0	2,386	2,346	40	18.2		18.0	429
1985 . .	37	80	19.9	1,595	1,535	60	26.7		25.8	411

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[1] Sum of island estimates may not add to State total due to rounding.
[2] Average of monthly estimates.
[3] Utilized production divided by acreage harvested.
[4] Island data not shown separately to avoid disclosure of individual operations.
[5] Maui/Molokai combined with Kauai to avoid disclosure of individual operations.

PAPAYAS: Acreage, utilization, price, and outshipments, State of Hawaii, 1981-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
						Area harvested -- Acres[1]							
1981 . .	2,105	1,975	1,960	2,040	2,045	2,060	2,150	2,140	2,150	2,240	2,235	2,235	2,110
1982 . .	2,255	2,280	2,285	2,170	2,160	2,125	2,070	2,130	2,115	2,130	2,140	2,190	2,170
1983 . .	2,025	2,050	2,035	2,095	2,090	2,070	2,095	2,095	2,095	2,220	2,195	2,375	2,120
1984 . .	2,330	2,370	2,430	2,455	2,570	2,630	2,710	2,800	2,690	2,635	2,725	2,765	2,590
1985 . .	2,810	2,920	2,890	2,820	2,820	2,695	2,725	2,625	2,345	2,410	2,385	2,395	2,650
						Utilization (fresh and processed) -- 1,000 pounds							
1981 . .	4,626	4,532	5,607	5,853	5,671	6,893	5,848	5,075	6,405	5,973	5,335	4,572	66,390
1982 . .	4,151	4,369	4,852	4,397	4,114	4,346	4,320	4,049	4,005	4,615	4,499	5,033	52,750
1983 . .	4,701	3,341	2,607	2,991	6,019	5,820	6,616	5,310	2,732	4,987	8,556	7,720	61,400
1984 . .	6,505	6,127	7,501	8,959	8,028	6,022	6,931	8,443	5,011	5,751	6,833	4,389	80,500
1985 . .	4,704	5,544	5,642	4,531	4,389	4,249	6,944	5,446	4,561	5,634	4,838	3,918	60,400
						Total fresh papaya utilization -- 1,000 pounds							
1981 . .	4,258	4,075	4,920	5,210	4,950	5,961	5,348	4,300	5,854	4,922	4,800	3,572	58,170
1982 . .	3,379	3,716	4,515	3,993	3,534	3,650	3,699	3,284	3,406	3,877	3,654	4,063	44,770
1983 . .	3,565	2,806	2,226	2,533	4,744	4,702	4,518	3,447	2,070	3,897	6,124	5,668	46,300
1984 . .	5,100	5,039	6,049	6,790	5,977	5,094	5,472	7,478	4,788	5,458	5,999	3,756	67,000
1985 . .	4,267	4,400	4,791	4,079	3,914	3,619	5,134	3,989	3,722	4,594	3,383	3,358	49,250
						Intrastate fresh papaya utilization -- 1,000 pounds							
1981 . .	1,107	1,089	1,258	1,187	1,043	1,232	984	788	1,056	1,241	1,160	878	13,023
1982 . .	825	1,161	1,105	840	811	830	914	928	881	1,021	984	1,160	11,460
1983 . .	995	793	565	650	840	875	863	847	473	964	1,463	1,332	10,660
1984 . .	1,156	1,253	1,598	1,248	1,310	1,381	1,064	1,361	743	786	1,500	790	14,190
1985 . .	1,697	1,676	1,427	1,225	1,320	1,123	1,352	1,049	1,125	1,585	1,371	1,250	16,200
						Outshipments of fresh papayas -- 1,000 pounds							
1981 . .	3,151	2,986	3,662	4,023	3,907	4,729	4,364	3,512	4,798	3,681	3,640	2,694	45,147
1982 . .	2,554	2,555	3,410	3,153	2,723	2,820	2,785	2,356	2,525	2,856	2,670	2,903	33,310
1983 . .	2,570	2,013	1,661	1,883	3,904	3,827	3,655	2,600	1,597	2,933	4,661	4,336	35,640
1984 . .	3,944	3,786	4,451	5,542	4,667	3,713	4,408	6,117	4,045	4,672	4,499	2,966	52,810
1985 . .	2,570	2,724	3,364	2,854	2,594	2,496	3,782	2,940	2,597	3,009	2,012	2,108	33,050
						Farm price for fresh market sales (to all markets) -- Cents per pound							
1981 . .	17.6	25.1	25.1	23.8	23.8	24.7	21.0	24.1	20.7	13.2	13.6	15.5	20.8
1982 . .	20.4	24.7	22.3	23.9	29.8	37.5	32.2	25.3	25.7	20.4	21.9	19.0	25.1
1983 . .	20.7	31.1	41.0	54.9	38.7	17.2	20.7	15.7	31.0	27.3	11.5	8.2	23.6
1984 . .	12.0	16.4	15.3	11.7	15.7	12.7	12.7	9.6	11.8	13.5	12.8	12.9	13.1
1985 . .	14.8	13.9	15.5	18.0	19.1	18.4	13.3	10.8	12.2	12.4	11.1	13.3	14.2

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[1] Total is average of monthly data.

AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Farms	Acreage[1]		Yield per acre (bearing)	Production	Farm price	Value of sales
		In crop	Bearing				
	Number	-------- Acres --------		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
1981 . . .	155	370	200	6.0	1,200	26.4	317
1982 . . .	160	440	240	6.7	1,600	22.5	360
1983 . . .	160	450	250	4.7	1,170	26.1	305
1984 . . .	165	505	270	4.3	1,150	25.9	298
1985 . . .	160	525	320	3.8	1,220	24.5	299

[1] At end of year.

ORANGES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Farms	Acreage bearing[1]	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
1981 . . .	24	98	2.2	220	21.8	48
1982 . . .	23	120	2.9	350	25.0	88
1983 . . .	15	105	5.6	590	20.8	123
1984 . . .	15	110	5.8	640	26.6	170
1985 . . .	11	100	3.4	340	25.5	87

[1] At end of year.

TANGERINES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Farms	Acreage bearing[1]	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
1981 . . .	20	28	3.6	100	29.3	29
1982 . . .	20	25	4.4	110	26.0	29
1983 . . .	12	20	3.5	70	29.3	21
1984 . . .	13	22	4.5	100	26.2	26
1985 . . .	9	15	3.3	50	35.1	18

[1] At end of year.

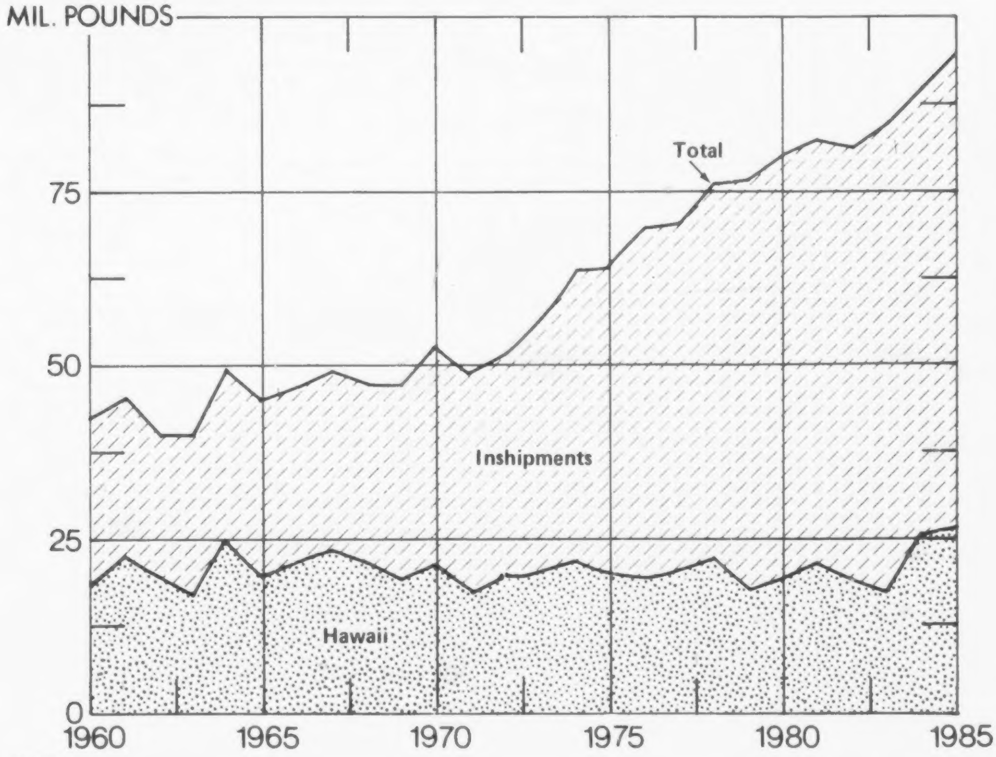
MARKET SUPPLY: Fresh market fruits, State of Hawaii, 1981-85 [1]

Commodity		1981	1982	1983	1984	1985
		1,000 pounds				
Apples:	Inshipments	12,878	11,977	13,123	12,997	12,463
Avocados:	Inshipments	559	439	634	820	726
	Hawaii	1,200	1,600	1,170	1,150	1,220
Bananas:	Inshipments	7,910	6,916	10,027	6,472	10,862
	Hawaii	6,000	5,750	4,470	8,900	8,160
Grapefruit:	Inshipments	2,757	2,997	2,971	2,461	2,331
Grapes:	Inshipments	4,459	5,599	5,516	6,096	6,707
Lemons:	Inshipments	3,065	3,030	3,046	3,459	3,268
Nectarines:	Inshipments	1,739	1,893	1,830	2,044	2,218
Oranges:	Inshipments	17,748	18,096	18,013	17,413	17,593
	Hawaii	220	350	590	640	340
Papayas:	Hawaii [2]	13,023	11,460	10,660	14,190	16,200
Pears:	Inshipments	3,072	3,741	3,657	4,053	4,050
Tangerines:	Inshipments	762	592	1,519	633	465
	Hawaii	100	110	70	100	50
All other fruits:	Inshipments	4,911	4,373	5,135	6,558	6,009
	Hawaii	340	370	310	350	460
Unspecified fruits:	Inshipments [3]	1,696	2,072	1,805	1,312	1,391
Total:	Inshipments	61,556	61,725	67,276	64,318	68,083
	Hawaii	20,883	19,640	17,270	25,330	26,430
	All	82,439	81,365	84,546	89,648	94,513

[1] Excludes pineapples, guavas, papayas, and passion fruit used for processing, and quantities shipped out-of-State. [2] Fresh intrastate sales only. Excludes mainland and foreign fresh sales. [3] Proration of shipments of unspecified mixed fruits destined for outlying islands.

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Fruits State of Hawaii, 1960-85



HASS

MARKET SUPPLY: Fresh market melons, State of Hawaii, 1981-85

Commodity		1981	1982	1983	1984	1985
		1,000 pounds				
Cantaloupes:	Inshipments	3,703	4,161	4,717	5,056	5,893
	Hawaii	--	[1]	[1]	[1]	--
Honeydew melons:	Inshipments	2,727	3,048	3,181	3,280	4,141
	Hawaii	--	[1]	[1]	[1]	--
Watermelons:	Inshipments	5,393	7,960	5,910	4,466	2,424
	Hawaii	1,610	2,200	3,860	6,090	8,800
Other melons:	Inshipments	351	416	329	442	402
	Hawaii	--	25	10	15	0
Unspecified melons:	Inshipments [2]	371	453	395	287	304
Total:	Inshipments	12,545	16,038	14,532	13,531	13,164
	Hawaii	1,610	2,225	3,870	6,105	8,800
	All	14,155	18,263	18,402	19,636	21,964

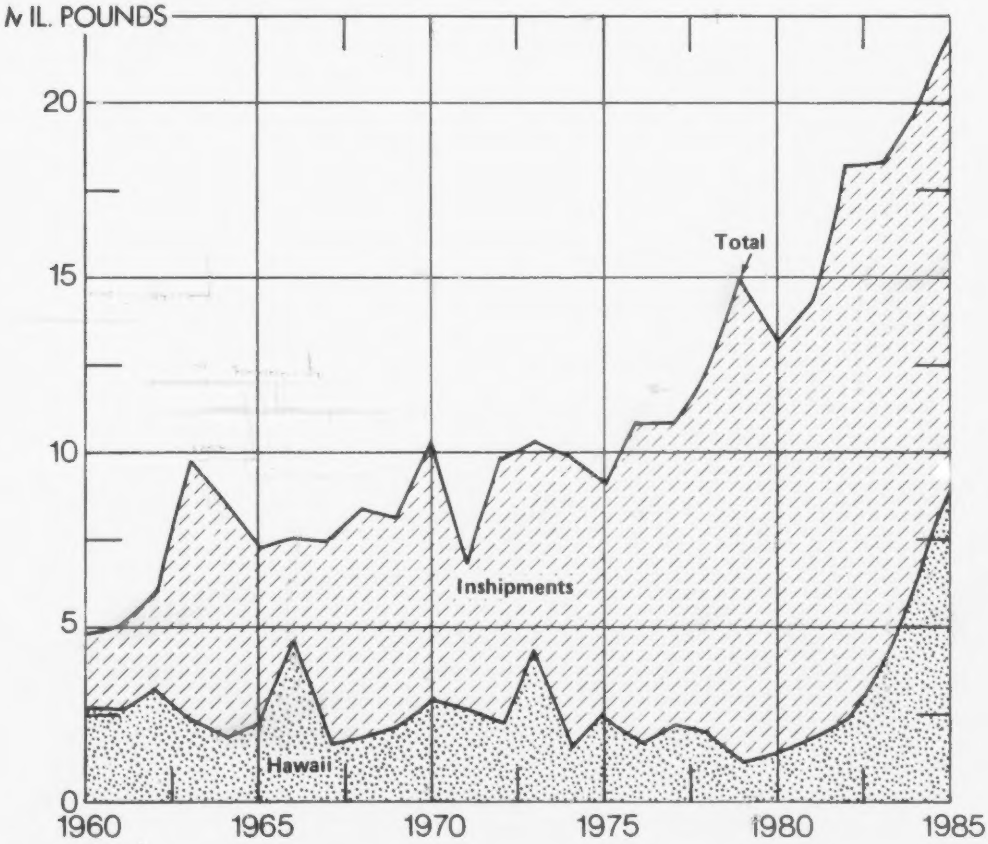
-- = Negligible.

[1] Data included with other melons

[2] Proration of shipments of unspecified mixed melons destined for outlying islands.

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Melons, State of Hawaii, 1960-85



HASS

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1981-85

Commodity		1981	1982	1983	1984	1985
		1,000 pounds				
Beans, snap:	Inshipments	183	235	111	72	148
	Hawaii	1,300	995	1,360	1,390	1,250
Bittermelon:	Inshipments	1	7	1	0	4
	Hawaii	290	185	260	330	210
Broccoli:	Inshipments	3,130	3,694	3,620	3,832	4,461
	Hawaii	500	570	680	660	960
Burdock:	Inshipments	0	0	3	2	4
	Hawaii	640	560	790	820	750
Cabbage, Chinese:	Inshipments	300	193	5	55	55
	Hawaii [1]	4,970	6,120	7,100	6,520	6,970
Cabbage, head:	Inshipments	1,035	596	69	325	199
	Hawaii	12,800	13,800	15,000	13,190	13,300
Cabbage, mustard:	Inshipments	104	76	42	24	56
	Hawaii	1,520	1,170	1,650	1,770	1,520
Carrots:	Inshipments	7,571	8,301	8,304	8,488	9,137
	Hawaii	230	190	150	220	200
Cauliflower:	Inshipments	1,058	1,190	1,214	1,308	1,185
	Hawaii	450	350	375	410	850
Celery:	Inshipments	4,852	4,840	3,882	3,620	4,026
	Hawaii	2,820	3,150	3,960	4,050	3,450
Corn, sweet:	Inshipments	16	369	251	248	382
	Hawaii	1,050	560	880	1,300	1,060
Cucumbers:	Inshipments	1,544	2,094	1,550	1,516	1,708
	Hawaii	5,000	4,350	5,200	4,870	4,200
Daikon:	Inshipments	0	6	1	0	50
	Hawaii [1]	1,990	2,140	2,400	2,390	3,040
Dasheen:	Inshipments	12	6	4	7	10
	Hawaii	200	330	450	240	210
Eggplant:	Inshipments	81	263	139	64	133
	Hawaii	1,580	1,130	1,480	1,380	1,340
Ginger root:	Inshipments	480	490	173	82	264
	Hawaii	2,860	3,630	5,140	5,050	5,425
Lettuce:	Inshipments	12,584	13,956	11,573	12,760	16,021
	Hawaii	10,200	9,400	12,200	10,200	9,400
Lotus root:	Inshipments			4	1	18
	Hawaii	180	200	185	180	185
Onions, dry:	Inshipments	12,186	14,051	13,260	14,463	14,016
	Hawaii	1,980	1,350	2,280	2,660	1,890
Onions, green:	Inshipments	509	564	207	191	204
	Hawaii	740	800	1,090	1,240	1,410
Parsley, American:	Inshipments	20	136	37	21	37
	Hawaii	280	260	330	415	310
Peas, Chinese:	Inshipments	156	199	279	328	305
	Hawaii	70	50	80	80	80
Peppers, green:	Inshipments	1,683	2,020	1,789	1,836	1,788
	Hawaii	760	820	1,190	1,460	1,480
Potatoes:	Inshipments [2]	36,648	39,292	37,653	40,741	40,916
	Hawaii	--	--	--	--	--
Pumpkins:	Inshipments	295	342	500	519	1,087
	Hawaii	330	310	340	330	260
Radish:	Inshipments	7	22	10	10	4
	Hawaii	240	270	330	300	310
Romaine:	Inshipments	617	965	742	1,015	1,332
	Hawaii	2,320	2,130	2,620	2,320	2,520

See footnotes at end of table.

Continued

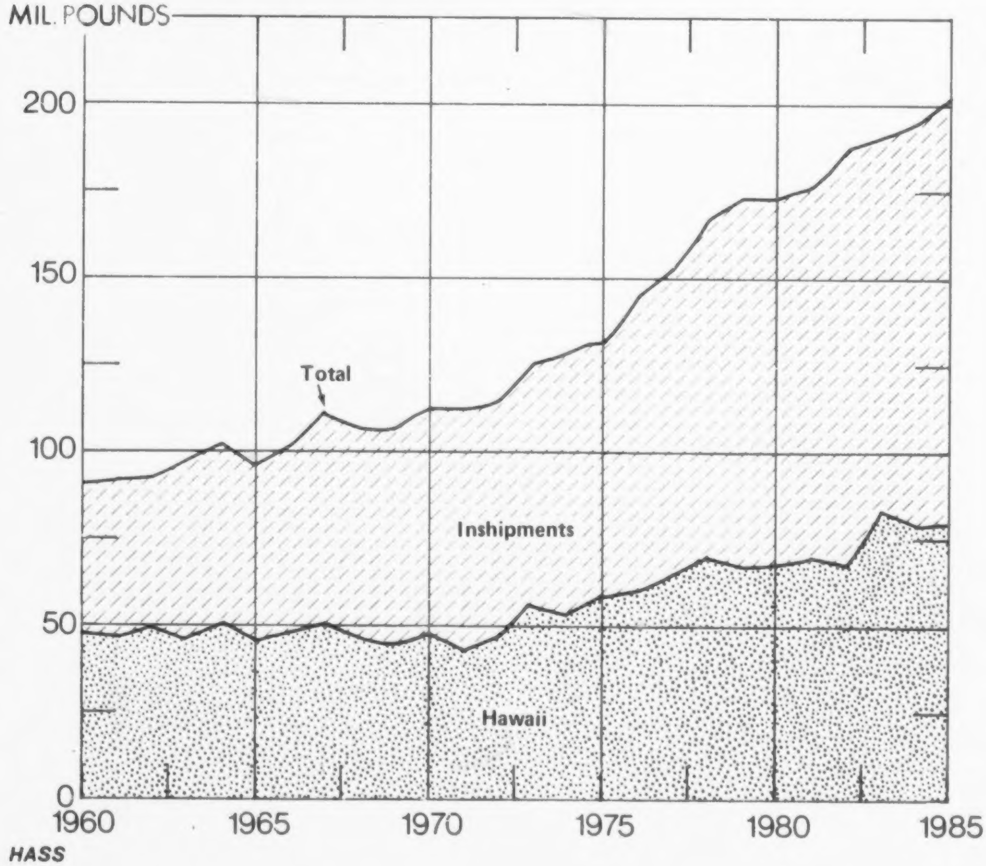
MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1981-85 -- Continued

Commodity		1981	1982	1983	1984	1985
		1,000 pounds				
Squash, Italian:	Inshipments	1,203	1,685	1,327	1,030	1,015
	Hawaii	540	390	740	960	1,160
Squash, Oriental:	Inshipments	14	70	69	48	101
	Hawaii	770	445	555	650	490
Sweetpotatoes:	Inshipments	604	616	633	614	719
	Hawaii	1,250	1,530	1,860	1,720	1,910
Taro:	Inshipments	905	980	793	677	1,013
	Hawaii [1]	215	307	346	290	590
Tomatoes:	Inshipments	6,744	8,454	8,195	9,434	9,824
	Hawaii	8,300	7,800	8,700	7,700	7,800
Watercress:	Inshipments	177	130	8	6	0
	Hawaii	1,130	850	1,300	1,400	1,530
All other vegetables:	Inshipments	7,101	7,573	7,428	8,671	8,728
	Hawaii	2,010	2,060	2,460	3,035	3,460
Unspecified vegetables:	Inshipments [3]	3,232	3,951	3,440	2,500	2,652
Total:	Inshipments	105,052	117,366	107,316	114,508	121,602
	Hawaii	69,515	68,202	83,481	79,530	79,520
	All	174,567	185,568	190,797	194,038	201,122

-- = Negligible. [1] Fresh market only. [2] For processing and fresh market. (Potato production for Hawaii included with all other vegetables for Hawaii to avoid disclosure.) [3] Proration of shipments of unspecified mixed vegetables destined for outlying islands.

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 1960-85



HASS

SNAP BEANS: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	130	10.0	1,300	76.1	989
1982	130	7.7	995	80.0	796
1983	185	7.4	1,360	62.8	854
1984	170	8.2	1,390	66.0	917
1985	**160**	**7.8**	**1,250**	**77.2**	**965**
			HAWAII/KAUAI [2]		
1981	20	11.5	230	64.8	149
1982	20	9.0	180	73.0	131
1983	30	6.0	180	64.9	117
1984	20	6.8	135	67.0	90
1985	**20**	**6.0**	**120**	**74.1**	**89**
			MAUI/MOLOKAI		
1981	80	8.2	660	79.0	521
1982	80	7.0	560	79.3	444
1983	105	7.3	770	60.3	464
1984	110	8.4	925	65.2	603
1985	**90**	**8.3**	**750**	**73.7**	**553**
			OAHU		
1981	30	13.7	410	77.8	319
1982	30	8.5	255	86.5	221
1983	50	8.2	410	66.7	273
1984	40	8.3	330	67.8	224
1985	**50**	**7.6**	**380**	**85.0**	**323**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SNAP BEANS: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Production [2]					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	15	15	17	19	**15**	87	63	91	121	**122**	85.9	89.5	87.1	73.7	**82.2**
February	15	14	18	19	**12**	88	73	98	108	**102**	87.0	91.7	64.8	65.0	**86.6**
March	16	12	23	19	**20**	101	77	110	133	**107**	90.4	89.7	52.7	57.2	**80.8**
April	18	17	17	19	**14**	135	119	98	114	**122**	69.1	87.1	62.6	58.8	**78.0**
May	20	17	19	18	**16**	112	107	129	130	**119**	75.8	76.8	59.5	60.4	**71.5**
June	20	19	22	17	**14**	101	115	147	112	**120**	64.1	76.4	49.1	65.7	**71.0**
July	19	18	18	16	**12**	116	107	109	114	**102**	71.3	69.4	57.7	63.2	**66.4**
August	17	16	18	16	**11**	117	77	122	118	**89**	72.8	71.8	60.6	65.4	**73.9**
September	17	15	16	14	**10**	111	77	121	117	**82**	69.0	75.4	63.8	64.9	**78.4**
October	15	15	14	14	**10**	118	77	92	123	**106**	75.0	75.5	68.9	64.6	**80.5**
November	14	16	17	14	**9**	116	58	116	112	**99**	76.9	77.7	69.0	76.7	**71.0**
December	13	14	19	15	**13**	98	45	127	88	**80**	83.3	86.5	67.9	82.6	**88.5**
Total or average	130	130	185	170	**160**	1,300	995	1,360	1,390	**1,250**	76.1	80.0	62.8	66.0	**77.2**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

BROCCOLI: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
1981	45	11.1	500	33.3	167
1982	52	11.0	570	35.5	202
1983	70	9.7	680	36.6	249
1984	70	9.4	660	38.5	254
1985	120	8.0	960	40.0	384

BURDOCK: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
1981	35	18.3	640	57.2	366
1982	30	18.7	560	53.7	301
1983	50	15.8	790	65.0	514
1984	50	16.4	820	63.9	524
1985	45	16.7	750	66.8	501

CARROTS: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
1981	15	15.3	230	23.4	54
1982	13	14.6	190	23.9	45
1983	12	12.5	150	22.5	34
1984	15	14.7	220	21.6	48
1985	15	13.3	200	20.8	42

CAULIFLOWER: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
1981	30	15.0	450	27.2	122
1982	25	14.0	350	30.5	107
1983	25	15.0	375	36.0	135
1984	30	13.7	410	33.0	135
1985	60	14.2	850	38.1	324

CHINESE CABBAGE: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	310	21.6	6,700	14.5	972
1982	330	23.7	7,820	14.5	1,134
1983	370	23.6	8,750	10.8	945
1984	400	19.8	7,910	13.1	1,036
1985	370	22.4	8,300	13.6	1,129
			HAWAII		
1981	280	22.1	6,180	14.3	884
1982	310	24.1	7,480	14.4	1,077
1983	355	23.9	8,490	10.7	908
1984	380	19.6	7,460	12.7	947
1985	330	22.7	7,480	13.0	972
			KAUAI/MAUI/OAHU [2]		
1981	30	17.3	520	16.9	88
1982	20	17.0	340	16.7	57
1983	15	17.3	260	14.4	37
1984	20	22.5	450	19.7	89
1985	40	20.5	820	19.1	157

[1] Sum of island estimates may not add to State total due to rounding.

[2] Kauai and Oahu combined with Maui to avoid disclosure of individual operations.

CHINESE CABBAGE: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Processing and fresh market									
						Production					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	32	25	31	33	**30**	620	671	581	609	**685**	12.7	14.7	11.2	12.7	**21.3**
February	31	25	32	38	**38**	552	635	711	935	**776**	13.9	16.2	11.1	12.4	**17.6**
March	29	27	39	61	**43**	644	841	1,146	1,299	**955**	14.6	15.6	10.3	10.7	**15.0**
April	34	33	36	44	**38**	725	928	1,132	691	**1,211**	12.4	14.9	12.6	9.2	**12.5**
May	28	31	23	36	**28**	642	767	698	514	**539**	11.6	13.2	15.4	9.8	**11.8**
June	25	32	29	25	**28**	507	589	601	594	**579**	10.2	11.1	11.9	9.8	**11.5**
July	21	23	25	28	**29**	460	445	654	561	**590**	15.2	13.6	9.5	11.8	**11.4**
August	19	25	30	31	**27**	341	480	674	598	**609**	19.2	18.5	10.0	13.7	**12.5**
September	18	23	32	30	**29**	385	497	662	532	**520**	21.1	17.1	9.5	14.2	**14.0**
October	20	28	28	27	**27**	619	686	616	543	**584**	19.4	15.1	9.1	17.2	**11.6**
November	26	28	33	28	**30**	550	624	646	516	**603**	13.9	12.2	8.1	20.3	**11.0**
December	27	30	32	19	**23**	655	657	629	518	**649**	13.9	12.0	9.0	21.2	**11.0**
Total or average	310	330	370	400	**370**	6,700	7,820	8,750	7,910	**8,300**	14.5	14.5	10.8	13.1	**13.6**

[1] Sum of monthly estimates may not add to annual total due to rounding.

PROCESSED CHINESE CABBAGE AND DAIKON:
Quantity processed, price, and value, State of Hawaii, 1981-85

Year	Chinese cabbage			Daikon		
	Quantity processed	Farm price	Value of sales	Quantity processed	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	1,000 pounds	Cents per pound	1,000 dollars
1981	1,730	14.8	256	690	10.3	71
1982	1,700	14.4	245	920	10.4	96
1983	1,650	11.5	190	740	10.6	78
1984	1,390	13.5	188	610	11.6	71
1985	1,330	15.7	209	560	12.3	69

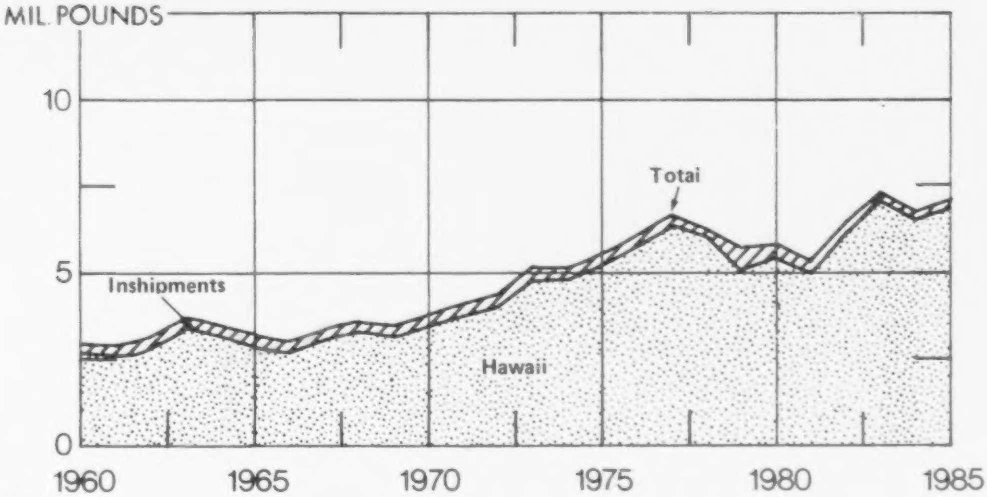
MUSTARD CABBAGE: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	------------------- 1,000 pounds	-------------------	Cents per pound	1,000 dollars
1981	125	12.2	1,520	28.3	430
1982	120	9.8	1,170	35.7	418
1983	170	9.7	1,650	30.5	503
1984	165	10.7	1,770	30.3	536
1985	160	9.5	1,520	32.4	492

DASHEEN: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

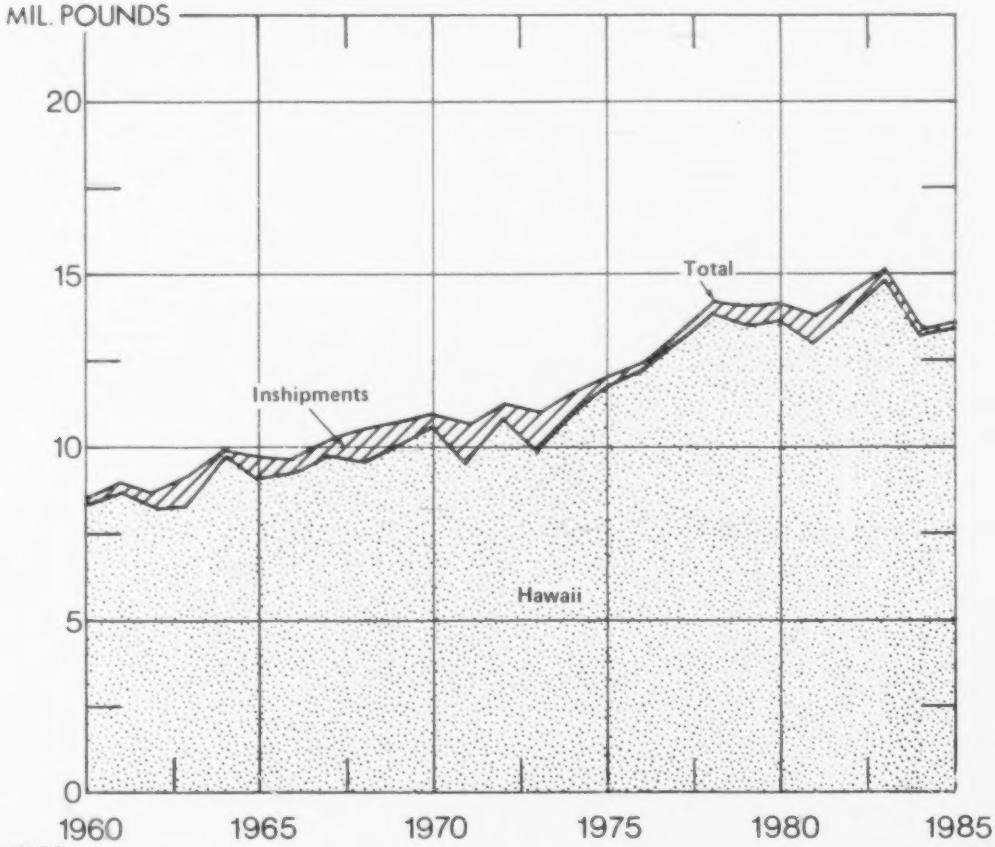
Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	------------------- 1,000 pounds	-------------------	Cents per pound	1,000 dollars
1981	7	28.6	200	59.0	118
1982	13	25.4	330	65.1	215
1983	18	25.0	450	52.4	236
1984	12	20.0	240	52.5	126
1985	10	21.0	210	50.0	105

MARKET SUPPLY: Fresh Market Chinese Cabbage, State of Hawaii, 1960-85



HASS

MARKET SUPPLY: Fresh Market Head Cabbage, State of Hawaii, 1960-85



HASS

HEAD CABBAGE: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	510	25.0	12,800	14.0	1,792
1982	540	25.5	13,800	14.1	1,946
1983	550	27.3	15,000	11.8	1,770
1984	470	28.1	13,190	15.6	2,058
1985	**460**	**28.9**	**13,300**	**16.3**	**2,168**
			HAWAII/KAUAI/OAHU [2]		
1981	120	19.2	2,300	13.6	312
1982	125	21.6	2,700	12.9	348
1983	130	23.1	3,000	10.2	306
1984	125	21.5	2,690	12.5	336
1985	**130**	**22.7**	**2,950**	**14.9**	**440**
			MAUI		
1981	390	26.9	10,500	14.1	1,480
1982	415	26.7	11,100	14.4	1,598
1983	420	28.6	12,000	12.2	1,464
1984	345	30.4	10,500	16.4	1,722
1985	**330**	**31.4**	**10,350**	**16.7**	**1,728**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai and Oahu combined with Hawaii to avoid disclosure of individual operations.

HEAD CABBAGE: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Production [1]					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	43	43	42	42	**32**	1,139	1,218	1,220	1,184	**1,130**	13.9	15.4	13.3	14.4	**18.1**
February	48	45	52	39	**36**	1,203	1,156	1,269	1,158	**1,053**	13.9	15.6	12.8	16.5	**17.9**
March	47	49	53	45	**40**	1,263	1,247	1,420	1,278	**1,167**	13.1	15.8	11.7	16.2	**14.9**
April.	47	39	51	41	**40**	1,259	1,152	1,201	1,088	**1,069**	12.6	15.5	10.6	15.0	**16.8**
May	47	41	49	40	**47**	1,162	1,219	1,224	1,177	**1,029**	10.5	15.0	10.2	13.7	**15.8**
June	44	43	50	41	**40**	1,087	1,086	1,237	1,162	**1,046**	9.3	13.0	9.7	13.7	**15.9**
July	35	43	47	36	**39**	830	1,181	1,227	1,083	**1,103**	13.4	11.7	9.4	14.5	**15.9**
August	39	45	48	40	**34**	877	1,026	1,234	1,083	**1,096**	14.8	11.6	9.9	14.9	**17.0**
September	34	47	43	36	**36**	797	906	1,242	962	**1,016**	17.2	13.9	12.7	16.6	**17.4**
October.	38	48	38	37	**40**	929	1,111	1,224	991	**1,214**	18.8	14.2	13.7	17.6	**16.3**
November	44	45	39	38	**37**	1,041	1,135	1,247	943	**1,093**	17.0	13.6	13.7	18.0	**15.4**
December	44	52	38	35	**39**	1,213	1,363	1,255	1,081	**1,284**	15.7	13.0	14.0	17.5	**14.9**
Total or average . .	510	540	550	470	**460**	12,800	13,800	15,000	13,190	**13,300**	14.0	14.1	11.8	15.6	**16.3**

[1] Sum of monthly estimates may not add to State total due to rounding.

CELERY: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1981	65	43.4	2,820	20.1	567
1982	75	42.0	3,150	19.4	611
1983	110	36.0	3,960	19.7	780
1984	115	35.2	4,050	20.0	810
1985	**110**	**31.4**	**3,450**	**19.5**	**673**
			HAWAII		
1981	50	42.0	2,100	19.6	412
1982	60	40.7	2,440	19.1	466
1983	90	34.9	3,140	19.2	603
1984	100	34.4	3,440	19.3	664
1985	**90**	**30.0**	**2,700**	**18.7**	**505**
			MAUI		
1981	15	48.0	720	21.5	155
1982	15	47.3	710	20.4	145
1983	20	41.0	820	21.6	177
1984	15	40.7	610	23.9	146
1985	**20**	**37.5**	**750**	**22.4**	**168**

CELERY: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested					Production					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	5	6	7	9	**8**	201	293	256	321	**228**	19.8	20.6	17.8	29.3	**24.4**
February	5	5	7	12	**8**	208	242	270	345	**242**	19.9	20.8	17.7	28.8	**21.7**
March	5	6	8	10	**9**	242	263	326	381	**272**	18.8	21.7	18.3	23.5	**18.7**
April.	6	6	9	13	**11**	253	270	347	391	**344**	18.9	19.6	19.7	19.6	**17.4**
May	7	6	10	10	**10**	299	280	369	391	**363**	19.6	19.4	22.3	16.6	**17.4**
June	5	7	10	10	**10**	265	313	362	382	**326**	20.7	20.0	21.1	17.2	**19.4**
July	6	7	10	10	**9**	235	310	394	396	**355**	21.0	18.1	20.0	17.4	**19.2**
August	5	6	10	9	**12**	219	253	334	347	**310**	21.1	17.4	17.6	16.6	**18.8**
September	5	6	10	9	**8**	206	202	313	330	**255**	20.5	18.5	18.2	16.2	**20.3**
October.	5	6	9	9	**8**	223	215	291	309	**257**	20.1	18.4	19.2	17.2	**18.4**
November	5	7	10	8	**8**	215	232	355	228	**238**	20.0	18.7	19.2	18.2	**20.3**
December	6	7	10	6	**9**	254	277	343	229	**260**	20.6	18.6	23.4	20.2	**20.4**
Total or average . .	65	75	110	115	**110**	2,820	3,150	3,960	4,050	**3,450**	20.1	19.4	19.7	20.0	**19.5**

SWEET CORN: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1981	290	3.6	1,050	29.3	308
1982	170	3.3	560	33.4	187
1983	250	3.5	880	33.8	297
1984	315	4.1	1,300	35.8	465
1985	**255**	**4.2**	**1,060**	**36.6**	**388**
			HAWAII/KAUAI [2]		
1981	40	4.4	175	26.9	47
1982	16	4.7	75	32.0	24
1983	25	5.4	135	31.3	42
1984	40	5.8	230	28.4	65
1985	**35**	**5.1**	**180**	**31.2**	**56**
			MAUI/MOLOKAI		
1981	15	3.7	55	34.6	19
1982	9	3.9	35	45.7	16
1983	20	4.0	80	46.3	37
1984	25	5.6	140	42.0	59
1985	**20**	**4.0**	**80**	**42.3**	**34**
			OAHU		
1981	235	3.5	820	29.5	242
1982	145	3.1	450	32.6	147
1983	205	3.2	665	32.8	218
1984	250	3.7	930	36.7	341
1985	**200**	**4.0**	**800**	**37.2**	**298**

[1] Sum of island estimates may not add to State total due to rounding.

[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEET CORN: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested					Production [1]					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	17	11	5	12	**16**	55	30	10	43	**60**	27.4	31.1	33.3	36.7	**37.0**
February	15	6	9	12	**15**	51	26	13	40	**53**	28.4	33.5	33.8	37.9	**37.0**
March	14	2	6	19	**14**	52	10	18	88	**47**	31.7	36.0	34.5	45.3	**38.0**
April	28	6	11	22	**16**	133	28	60	95	**78**	30.7	38.9	32.4	36.5	**39.4**
May	34	11	26	25	**22**	109	37	95	105	**120**	31.5	33.8	33.2	36.2	**38.9**
June	32	19	28	22	**27**	116	66	103	135	**127**	31.9	34.3	31.9	37.3	**37.8**
July	20	24	26	40	**29**	88	95	102	171	**132**	27.9	32.0	37.7	37.4	**36.4**
August	29	18	27	42	**27**	106	67	90	129	**129**	27.3	31.6	34.4	40.2	**36.4**
September	32	12	31	37	**23**	104	49	85	135	**77**	28.0	30.7	31.5	37.1	**33.6**
October	26	14	31	31	**22**	89	51	116	105	**71**	28.9	31.7	31.7	28.6	**34.6**
November	25	25	30	30	**29**	85	68	120	152	**119**	28.0	36.9	35.3	28.5	**34.9**
December	18	22	20	23	**15**	62	33	68	102	**47**	28.3	34.5	36.3	31.2	**32.9**
Total or average	290	170	250	315	**255**	1,050	560	880	1,300	**1,060**	29.3	33.4	33.8	35.8	**36.6**

[1] Sum of monthly estimates may not add to annual total due to rounding.

CUCUMBERS: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE[1]		
1981	250	20.0	5,000	25.3	1,265
1982	225	19.3	4,350	31.1	1,353
1983	250	20.8	5,200	26.6	1,383
1984	230	21.2	4,870	27.7	1,349
1985	**260**	**16.2**	**4,200**	**29.7**	**1,247**
			HAWAII		
1981	90	33.3	3,000	22.2	666
1982	90	30.6	2,750	28.2	776
1983	100	33.2	3,320	23.9	793
1984	100	30.6	3,060	26.1	799
1985	**95**	**23.2**	**2,200**	**27.2**	**598**
			KAUAI		
1981	35	11.4	400	24.6	98
1982	35	11.6	405	27.8	113
1983	20	9.5	190	28.6	54
1984	15	16.0	240	29.0	70
1985	**15**	**14.0**	**210**	**27.9**	**59**
			MAUI/MOLOKAI		
1981	35	11.4	400	28.2	113
1982	25	13.2	330	30.5	101
1983	50	11.2	560	25.9	145
1984	55	12.7	700	27.8	195
1985	**55**	**10.2**	**560**	**31.6**	**177**
			OAHU		
1981	90	13.3	1,200	32.3	388
1982	75	11.7	865	42.0	363
1983	80	14.1	1,130	34.6	391
1984	60	14.5	870	32.8	285
1985	**95**	**12.9**	**1,230**	**33.6**	**413**

[1] Sum of island estimates may not add to State total due to rounding.

CUCUMBERS: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested[1]					Production[2]					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	24	33	24	46	**56**	371	385	328	522	**296**	28.5	30.3	32.8	25.4	**35.3**
February	17	21	24	32	**21**	198	335	380	387	**225**	30.0	41.6	37.1	33.4	**36.8**
March	26	25	20	28	**26**	307	299	257	573	**228**	30.8	40.6	35.2	32.2	**33.3**
April.	36	33	25	29	**23**	495	377	395	351	**368**	20.8	34.1	33.0	28.6	**30.4**
May	30	28	31	27	**37**	459	299	557	472	**425**	21.4	31.5	22.9	27.4	**27.5**
June	27	32	31	24	**33**	414	466	611	356	**418**	26.2	29.6	20.3	22.5	**27.4**
July	26	34	28	24	**32**	549	561	374	365	**489**	24.5	18.1	21.6	23.1	**29.1**
August	34	31	27	18	**28**	503	309	422	342	**401**	20.9	25.4	23.3	25.7	**28.0**
September	32	24	22	26	**32**	422	326	324	405	**484**	24.2	32.0	27.0	26.0	**26.3**
October.	30	18	23	23	**26**	387	325	357	330	**333**	27.4	32.4	31.2	27.9	**26.6**
November	28	23	29	27	**24**	500	337	522	435	**270**	28.0	33.1	26.3	27.9	**29.5**
December	27	21	42	25	**21**	395	331	673	332	**263**	27.3	34.8	22.1	30.4	**34.4**
Total or average . .	250	225	250	230	**260**	5,000	4,350	5,200	4,870	**4,200**	25.3	31.1	26.6	27.7	**29.7**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

DAIKON: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	------------- ------ 1,000 pounds	-------------------	Cents per pound	1,000 dollars
			STATE [1]		
1981	200	13.4	2,680	16.6	445
1982	180	17.0	3,060	17.8	545
1983	190	16.5	3,140	15.7	493
1984	200	15.0	3,000	17.1	513
1985	**260**	**13.8**	**3,600**	**17.8**	**641**
			HAWAII		
1981	110	12.9	1,420	12.6	179
1982	100	19.4	1,940	14.0	272
1983	80	19.8	1,580	12.2	193
1984	80	15.0	1,200	11.6	139
1985	**130**	**13.8**	**1,800**	**14.7**	**265**
			MAUI/OAHU [2]		
1981	90	14.0	1,260	21.1	266
1982	80	14.0	1,120	24.4	273
1983	110	14.2	1,560	19.2	300
1984	120	15.0	1,800	20.8	374
1985	**130**	**13.8**	**1,800**	**20.9**	**376**

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[1] Sum of island estimates may not add to State total due to rounding.
[2] Maui combined with Oahu to avoid disclosure of individual operations.

DAIKON: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Processing and fresh market									
						Production					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	------- Acres				-------	------- 1,000 pounds				-------	------- Cents per pound				-------
January	18	17	15	18	**18**	194	230	329	294	**280**	16.1	21.7	20.6	14.9	**19.7**
February	14	13	14	17	**17**	185	207	272	252	**229**	15.4	19.5	15.1	15.5	**21.8**
March	18	11	16	17	**21**	249	242	271	301	**273**	17.6	20.6	12.6	16.9	**20.6**
April	19	13	16	17	**20**	311	299	258	249	**351**	11.8	20.3	13.9	15.0	**16.8**
May	20	14	16	15	**21**	230	324	288	247	**312**	14.9	15.2	16.2	15.2	**14.3**
June	16	15	16	18	**24**	182	269	260	260	**278**	17.5	14.1	14.0	15.7	**17.1**
July	19	15	17	15	**23**	254	226	260	211	**323**	17.4	15.9	13.4	16.4	**18.0**
August	19	18	17	17	**25**	232	277	229	231	**324**	14.7	15.1	13.4	19.4	**17.9**
September	15	15	16	15	**24**	155	211	227	161	**336**	16.3	17.7	15.5	20.3	**16.5**
October	13	18	16	19	**22**	202	284	212	289	**321**	19.2	17.3	15.5	19.8	**16.1**
November	14	16	15	15	**20**	224	238	255	235	**235**	18.3	17.9	15.9	18.0	**17.1**
December	15	15	16	17	**25**	262	253	279	270	**338**	21.3	19.6	15.8	19.4	**19.0**
Total or average . .	200	180	190	200	**260**	2,680	3,060	3,140	3,000	**3,600**	16.6	17.8	15.7	17.1	**17.8**

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[1] Sum of monthly estimates may not add to State total due to rounding.

EGGPLANT: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	60	26.3	1,580	35.7	564
1982	45	25.1	1,130	45.2	511
1983	60	24.7	1,480	48.0	710
1984	60	23.0	1,380	44.2	610
1985	55	24.4	1,340	51.0	683
			HAWAII/MAUI/MOLOKAI [2]		
1981	15	18.0	270	34.8	94
1982	11	22.7	250	40.7	102
1983	15	24.0	360	40.7	147
1984	15	22.0	330	41.3	136
1985	10	21.0	210	41.7	88
			KAUAI		
1981	15	32.7	490	33.3	163
1982	14	29.3	410	42.5	174
1983	15	26.7	400	42.6	170
1984	10	26.0	260	41.0	107
1985	10	28.0	280	48.5	136
			OAHU		
1981	30	27.3	820	37.4	307
1982	20	23.5	470	50.1	235
1983	30	24.0	720	54.6	393
1984	35	22.6	790	46.4	367
1985	35	24.3	850	54.0	459

[1] Sum of island estimates may not add to State total due to rounding.

[2] Maui and Molokai combined with Hawaii to avoid disclosure of individual operations.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Acreage harvested	Yield per acre	Production	Out-of-State sales	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
1981	64	44.7	2,860	2,620	76.2	2,179
1982	100	36.3	3,630	NA	92.3	3,350
1983	160	32.1	5,140	NA	54.6	2,806
1984	135	37.4	5,050	NA	45.1	2,280
1985	125	43.4	5,425	NA	82.3	4,465

NA = Not available.

LETTUCE (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	680	15.0	10,200	22.7	2,315
1982	650	14.5	9,400	26.2	2,463
1983	840	14.5	12,200	23.0	2,806
1984	730	14.0	10,200	24.1	2,458
1985	**650**	**14.5**	**9,400**	**24.9**	**2,341**
			HAWAII		
1981	300	14.3	4,300	17.6	757
1982	290	13.4	3,900	23.6	920
1983	350	12.9	4,520	21.2	958
1984	370	11.9	4,400	19.9	876
1985	**340**	**10.6**	**3,590**	**21.6**	**775**
			KAUAI/OAHU [2]		
1981	120	16.7	2,000	35.4	708
1982	115	14.8	1,700	32.9	559
1983	120	14.1	1,690	36.0	608
1984	125	11.2	1,400	42.0	588
1985	**120**	**13.3**	**1,590**	**36.4**	**579**
			MAUI/MOLOKAI		
1981	260	15.0	3,900	21.8	850
1982	245	15.5	3,800	25.9	984
1983	370	16.2	5,990	20.7	1,240
1984	235	18.7	4,400	22.6	994
1985	**190**	**22.2**	**4,220**	**23.4**	**987**

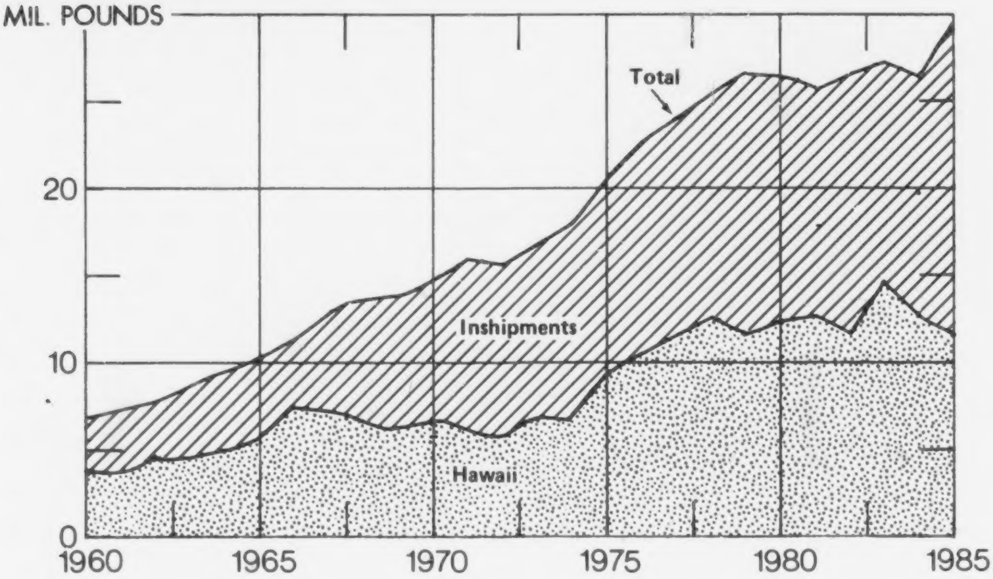
[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Oahu to avoid disclosure of individual operations.

LETTUCE (HEAD, SEMI-HEAD): Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Production [1]					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	59	53	55	69	**50**	814	561	777	894	**686**	22.5	35.3	27.2	27.1	**30.0**
February	56	47	67	71	**56**	798	511	939	1,030	**705**	21.5	39.5	23.6	26.4	**27.8**
March	60	55	82	71	**56**	953	611	1,302	1,184	**954**	21.1	28.4	19.2	22.3	**25.2**
April	62	50	79	66	**56**	927	858	1,228	1,053	**998**	18.7	27.8	18.4	20.6	**21.7**
May	62	56	82	63	**61**	1,035	1,071	1,284	1,035	**951**	18.9	23.4	21.4	21.7	**21.0**
June	58	54	76	64	**54**	966	957	1,184	994	**907**	19.5	22.2	22.2	21.8	**22.8**
July	54	57	69	63	**61**	851	902	1,067	841	**849**	22.8	22.7	21.8	22.6	**22.0**
August	57	50	69	71	**52**	668	759	1,016	916	**627**	25.2	24.0	22.5	22.1	**24.1**
September	52	55	68	56	**50**	752	793	922	740	**609**	26.0	25.8	23.3	23.8	**27.1**
October	51	56	61	51	**48**	814	1,034	802	545	**676**	25.4	23.4	26.4	29.4	**27.2**
November	55	60	63	46	**54**	823	753	833	490	**635**	25.7	24.8	28.2	31.4	**27.1**
December	54	57	69	39	**52**	799	590	846	478	**803**	28.2	28.0	28.0	28.7	**27.3**
Total or average	680	650	840	730	**650**	10,200	9,400	12,200	10,200	**9,400**	22.7	26.2	23.0	24.1	**24.9**

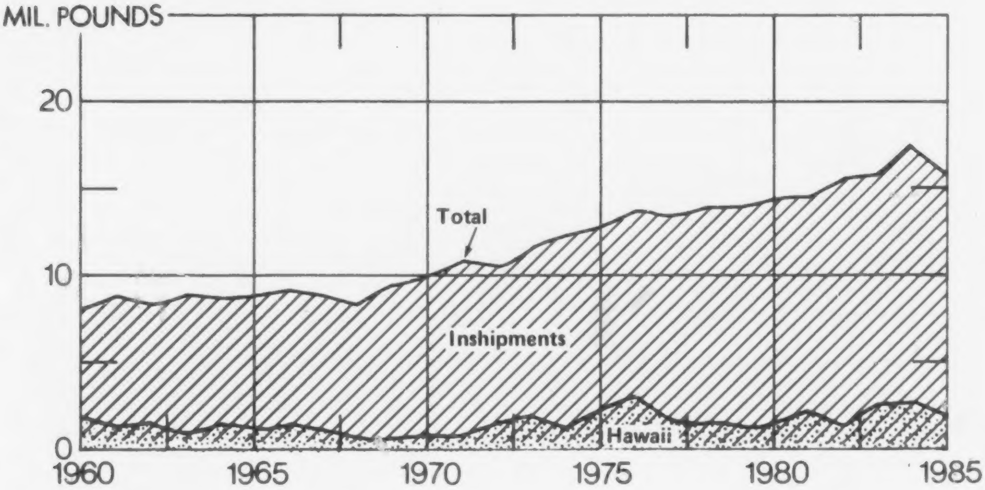
[1] Sum of monthly estimates may not add to State total due to rounding.

MARKET SUPPLY: Fresh Market Lettuce, State of Hawaii, 1960-85



HASS

MARKET SUPPLY: Fresh Market Dry Onions, State of Hawaii, 1960-85



HASS

DRY ONIONS: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	120	16.5	1,980	51.4	1,018
1982	105	12.9	1,350	66.2	894
1983	150	15.2	2,280	55.4	1,263
1984	200	13.3	2,660	61.4	1,633
1985	165	11.5	1,890	71.6	1,353
			HAWAII/KAUAI/OAHU [2]		
1981	10	13.0	130	52.7	69
1982	10	10.0	100	64.0	64
1983	10	14.0	140	50.5	71
1984	10	11.0	110	49.8	55
1985	5	8.0	40	66.3	27
			MAUI/MOLOKAI		
1981	110	16.8	1,850	51.3	949
1982	95	13.2	1,250	66.4	830
1983	140	15.3	2,140	55.7	1,192
1984	190	13.4	2,550	61.9	1,578
1985	160	11.6	1,850	71.7	1,326

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai and Oahu combined with Hawaii to avoid disclosure of individual operations.

DRY ONIONS: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Production					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	6	5	8	13	**12**	117	95	101	128	**163**	61.9	61.7	69.2	73.6	**75.6**
February	7	12	12	15	**18**	118	96	181	147	**150**	62.0	70.7	71.4	66.2	**85.5**
March	8	12	12	18	**11**	215	173	169	326	**81**	58.6	77.9	68.3	43.4	**75.6**
April.	11	8	10	18	**17**	291	90	226	255	**221**	45.5	72.0	58.0	44.1	**79.3**
May	14	7	16	11	**23**	240	100	329	189	**231**	41.7	66.7	47.5	63.3	**75.9**
June	14	11	14	14	**20**	212	145	266	216	**209**	36.8	60.7	37.5	62.2	**62.8**
July	11	10	14	19	**19**	157	144	218	249	**197**	41.7	59.4	31.0	64.0	**63.8**
August	8	7	13	17	**10**	113	75	126	228	**133**	47.1	56.6	38.5	60.9	**66.1**
September	11	12	12	19	**10**	97	126	164	213	**132**	55.3	59.9	49.4	60.1	**66.6**
October.	8	5	17	16	**12**	103	61	167	184	**142**	61.4	60.5	70.4	56.8	**66.0**
November	10	9	14	21	**7**	129	141	194	292	**129**	64.1	71.2	70.6	78.5	**66.6**
December	12	7	8	19	**6**	188	104	139	233	**102**	62.8	69.0	78.8	74.6	**75.8**
Total or average . .	120	105	150	200	**165**	1,980	1,350	2,280	2,660	**1,890**	51.4	66.2	55.4	61.4	**71.6**

[1] Sum of monthly estimates may not add to State total due to rounding.

GREEN ONIONS: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1981	75	9.9	740	76.5	566
1982	115	7.0	800	84.3	674
1983	150	7.3	1,090	69.9	762
1984	170	7.3	1,240	69.7	864
1985	**200**	**7.1**	**1,410**	**75.7**	**1,067**
			HAWAII/KAUAI [1]		
1981	8	8.8	70	69.2	48
1982	10	6.5	65	78.5	51
1983	10	7.0	70	69.1	48
1984	15	7.0	105	67.7	71
1985	**15**	**5.7**	**85**	**71.9**	**61**
			MAUI/MOLOKAI		
1981	7	10.0	70	78.2	55
1982	10	6.0	60	95.0	57
1983	10	10.0	100	89.2	89
1984	10	12.5	125	84.1	105
1985	**15**	**9.7**	**145**	**79.4**	**115**
			OAHU		
1981	60	10.0	600	77.2	463
1982	95	7.1	675	83.9	566
1983	130	7.1	920	67.9	625
1984	145	7.0	1,010	68.1	688
1985	**170**	**6.9**	**1,180**	**75.5**	**891**

[1] Kauai combined with Hawaii to avoid disclosure of individual operations.

GREEN ONIONS: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested					Production					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	8	9	10	14	**17**	37	42	77	106	**98**	86.0	98.0	96.1	71.4	**84.4**
February	4	6	11	12	**16**	40	38	85	90	**104**	90.6	115.0	80.2	77.5	**89.3**
March	6	4	13	13	**15**	68	36	93	96	**92**	88.1	108.5	78.7	74.0	**87.9**
April.	5	8	13	13	**15**	74	52	107	99	**102**	74.9	115.6	71.8	70.3	**77.0**
May	7	9	14	15	**17**	72	77	108	115	**120**	74.8	89.5	63.7	61.2	**65.7**
June	6	12	14	15	**18**	76	107	101	116	**128**	64.6	64.2	51.2	58.6	**64.3**
July	6	11	13	12	**17**	73	90	96	101	**120**	59.9	59.7	54.5	60.3	**63.8**
August	6	11	12	15	**18**	63	90	83	112	**135**	61.1	66.9	63.9	69.4	**66.8**
September	7	11	11	14	**17**	64	65	80	93	**126**	68.8	79.1	76.4	76.7	**70.9**
October.	5	12	11	15	**19**	54	72	71	107	**127**	83.3	82.4	72.0	74.5	**77.8**
November	8	11	14	16	**16**	52	70	87	112	**124**	92.5	86.9	69.2	74.7	**81.7**
December	7	11	14	16	**15**	67	61	102	93	**134**	90.6	109.6	70.3	71.7	**85.8**
Total or average . .	75	115	150	170	**200**	740	800	1,090	1,240	**1,410**	76.5	84.3	69.9	69.7	**75.7**

LOTUS ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1981-85 [1]

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
1981	35	5.1	180	98.5	177
1982	35	5.7	200	108.6	217
1983	35	5.3	185	109.5	203
1984	30	6.0	180	115.0	207
1985	35	5.3	185	134.0	248

[1] State production all on Island of Oahu.

PUMPKINS: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
1981	25	13.2	330	21.9	72
1982	23	13.5	310	21.0	65
1983	25	13.6	340	24.3	83
1984	30	11.0	330	25.5	84
1985	20	13.0	260	22.8	59

WATERCRESS: Acreage, production, price, and value, State of Hawaii, 1981-85

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	1,000 pounds	Cents per pound	1,000 dollars
1981	30	1,130	63.3	715
1982	25	850	73.2	622
1983	30	1,300	83.4	1,084
1984	35	1,400	83.8	1,173
1985	35	1,530	79.2	1,212

GREEN PEPPERS: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	55	13.8	760	54.4	413
1982	55	14.9	820	48.1	394
1983	80	14.9	1,190	53.0	631
1984	110	13.3	1,460	46.7	682
1985	**120**	**12.3**	**1,480**	**55.0**	**814**
			HAWAII		
1981	15	11.7	175	45.6	80
1982	12	13.3	160	45.5	73
1983	10	11.0	110	53.8	59
1984	10	11.0	110	52.0	57
1985	**13**	**9.2**	**120**	**54.3**	**65**
			KAUAI		
1981	17	15.6	265	56.4	149
1982	17	15.3	260	51.4	134
1983	17	16.5	280	49.5	139
1984	15	15.3	230	40.3	93
1985	**20**	**18.5**	**370**	**47.8**	**177**
			MAUI/MOLOKAI		
1981	14	15.7	220	51.2	113
1982	18	15.3	275	44.3	121
1983	45	14.4	650	54.6	355
1984	70	12.6	880	48.0	422
1985	**80**	**11.0**	**880**	**55.0**	**509**
			OAHU		
1981	9	11.1	100	71.4	71
1982	8	15.6	125	52.7	66
1983	8	18.8	150	51.7	78
1984	15	16.0	240	45.8	110
1985	**7**	**15.7**	**110**	**56.9**	**63**

[1] Sum of island estimates may not add to State total due to rounding.

GREEN PEPPERS: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Production					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	12	17	8	17	**33**	53	41	54	118	**114**	48.6	54.7	47.9	43.3	**52.7**
February	12	13	8	20	**31**	60	65	65	120	**103**	53.0	55.7	66.6	52.8	**63.7**
March	12	12	12	20	**35**	43	62	94	224	**113**	79.2	58.8	73.8	43.3	**66.3**
April.	12	10	17	30	**26**	62	58	137	170	**169**	94.9	57.1	66.2	37.1	**65.6**
May	14	12	23	23	**17**	60	84	165	232	**98**	69.3	58.0	52.5	39.8	**60.2**
June	16	18	16	20	**15**	72	107	133	99	**114**	52.3	55.1	47.6	48.4	**59.1**
July	14	20	17	17	**22**	58	86	119	81	**143**	53.5	46.1	51.7	53.0	**49.2**
August	13	20	13	10	**21**	57	96	106	47	**109**	51.4	38.4	47.7	57.1	**48.9**
September	17	13	10	10	**17**	75	65	75	72	**77**	45.0	35.7	44.7	55.6	**48.0**
October.	20	12	8	16	**18**	83	58	69	83	**111**	34.1	36.3	41.3	51.7	**45.1**
November	21	9	11	21	**20**	65	62	79	106	**151**	39.4	36.8	43.2	48.6	**49.6**
December	21	6	9	32	**25**	72	36	94	108	**178**	49.5	41.5	45.5	58.7	**50.7**
Total or average . .	55	55	80	110	**120**	760	820	1,190	1,460	**1,480**	54.4	48.1	53.0	46.7	**55.0**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.

ROMAINE: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1981	130	17.8	2,320	18.7	434
1982	115	18.5	2,130	23.9	509
1983	140	18.7	2,620	19.5	511
1984	135	17.2	2,320	21.5	499
1985	**150**	**16.8**	**2,520**	**22.8**	**575**
			HAWAII		
1981	75	18.1	1,360	17.6	239
1982	65	18.2	1,180	23.6	278
1983	80	19.5	1,560	20.1	314
1984	90	16.9	1,520	20.6	313
1985	**95**	**15.3**	**1,450**	**21.6**	**313**
			MAUI		
1981	55	17.5	960	20.3	195
1982	50	19.0	950	24.3	231
1983	60	17.7	1,060	18.6	197
1984	45	17.8	800	23.2	186
1985	**55**	**19.5**	**1,070**	**24.5**	**262**

ROMAINE: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested[1]					Production[1]					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	11	8	7	13	**10**	188	134	166	170	**162**	18.0	36.6	22.5	25.0	**29.4**
February	11	8	11	14	**14**	190	107	208	228	**165**	18.6	41.0	21.3	25.3	**29.2**
March	11	9	14	14	**12**	209	145	257	254	**239**	19.2	37.3	17.7	20.3	**26.0**
April.	11	10	14	13	**13**	215	191	266	214	**229**	16.9	28.1	16.0	16.6	**20.7**
May	13	11	14	13	**13**	227	244	270	210	**253**	16.2	22.7	15.5	18.2	**19.9**
June	12	11	15	12	**13**	209	227	274	198	**254**	15.8	18.0	15.5	17.9	**18.0**
July	11	11	12	11	**14**	204	226	225	203	**248**	17.9	16.4	15.9	19.3	**18.5**
August	10	9	11	10	**12**	164	154	176	205	**199**	17.9	18.9	19.5	20.2	**21.5**
September	12	9	10	10	**13**	207	162	186	188	**192**	22.1	20.9	21.1	19.3	**24.6**
October.	8	10	11	10	**13**	183	215	179	182	**200**	20.2	20.1	24.8	24.3	**22.7**
November	9	9	10	8	**11**	176	167	191	143	**177**	19.7	20.3	26.2	28.2	**23.9**
December	11	10	11	7	**12**	148	158	222	125	**202**	24.4	22.1	24.4	29.5	**24.6**
Total or average . .	130	115	140	135	**150**	2,320	2,130	2,620	2,320	**2,520**	18.7	23.9	19.5	21.5	**22.8**

[1] Sum of monthly estimates may not add to State total due to rounding.

SQUASH, ITALIAN: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	45	12.0	540	30.7	166
1982	34	11.5	390	36.2	141
1983	70	10.6	740	32.0	237
1984	90	10.7	960	32.2	309
1985	**110**	**10.5**	**1,160**	**31.7**	**368**
			HAWAII		
1981	16	11.9	190	30.5	58
1982	20	11.5	230	36.5	84
1983	37	10.0	370	31.6	117
1984	40	10.0	400	30.6	122
1985	**40**	**9.5**	**380**	**29.5**	**112**
			KAUAI/OAHU [2]		
1981	3	10.0	30	37.0	11
1982	3	10.0	30	39.3	12
1983	6	11.7	70	35.1	25
1984	6	11.7	70	35.6	25
1985	**4**	**10.0**	**40**	**35.0**	**14**
			MAUI		
1981	26	12.3	320	30.2	97
1982	11	11.8	130	35.0	45
1983	27	11.1	300	31.8	95
1984	44	11.1	490	33.0	162
1985	**66**	**11.2**	**740**	**32.7**	**242**

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[1] Sum of island estimates may not add to State total due to rounding.

[2] Oahu combined with Kauai to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE[1]		
1981	90	13.9	1,250	26.8	335
1982	130	11.8	1,530	25.2	386
1983	190	9.8	1,860	25.4	472
1984	175	9.8	1,720	27.3	470
1985	**200**	**9.6**	**1,910**	**28.6**	**546**
			HAWAII/KAUAI[2]		
1981	10	13.0	130	25.0	33
1982	15	8.7	130	24.1	31
1983	15	11.3	170	25.9	44
1984	15	9.3	140	27.9	39
1985	**15**	**8.7**	**130**	**29.6**	**38**
			MAUI/MOLOKAI		
1981	50	14.2	710	24.1	171
1982	80	12.5	1,000	22.9	229
1983	115	9.5	1,090	22.3	243
1984	120	9.7	1,160	24.8	288
1985	**155**	**9.5**	**1,480**	**27.1**	**401**
			OAHU		
1981	30	13.7	410	31.9	131
1982	35	11.4	400	31.4	126
1983	60	10.0	600	30.8	185
1984	40	10.5	420	34.1	143
1985	**30**	**10.0**	**300**	**35.7**	**107**

[1] Sum of island estimates may not add to State total due to rounding

[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested					Production					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	7	11	13	13	**9**	88	84	168	143	**133**	28.2	28.1	25.0	27.6	**29.7**
February	6	10	13	17	**16**	84	90	140	133	**131**	27.5	29.4	26.1	27.8	**29.8**
March	6	10	15	12	**13**	94	112	122	152	**81**	26.1	29.4	25.5	27.4	**31.5**
April.	7	6	15	14	**21**	104	86	128	167	**145**	25.6	28.2	26.5	26.9	**30.2**
May	7	10	18	14	**20**	108	105	172	193	**170**	27.1	27.9	25.1	26.0	**30.8**
June	6	9	20	12	**17**	89	140	225	151	**206**	28.4	29.5	24.2	26.0	**29.3**
July	8	12	17	16	**16**	97	143	148	127	**269**	26.1	27.1	24.3	26.7	**26.4**
August	8	13	21	14	**16**	112	143	195	114	**200**	27.9	24.1	26.1	27.2	**24.2**
September	7	13	19	16	**15**	103	173	163	109	**133**	26.1	23.3	24.8	28.8	**25.3**
October.	9	10	13	17	**18**	125	161	131	200	**113**	26.7	21.0	24.7	28.3	**28.0**
November	8	13	12	14	**19**	116	156	150	133	**137**	26.7	19.3	26.0	27.7	**30.1**
December	11	13	14	16	**20**	130	137	118	98	**192**	25.4	22.3	27.2	27.9	**31.4**
Total or average . .	90	130	190	175	**200**	1,250	1,530	1,860	1,720	**1,910**	26.8	25.2	25.4	27.3	**28.6**

TOMATOES: Acreage, yield, production, price, and value, by islands, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	280	29.5	8,300	35.3	2,930
1982	260	30.0	7,800	34.7	2,707
1983	290	30.0	8,700	38.7	3,367
1984	280	27.5	7,700	40.3	3,103
1985	**300**	**26.0**	**7,800**	**40.2**	**3,136**
			HAWAII		
1981	125	41.4	5,170	35.6	1,841
1982	125	40.8	5,100	35.7	1,821
1983	125	41.5	5,190	39.8	2,066
1984	130	34.7	4,510	41.9	1,890
1985	**140**	**33.2**	**4,650**	**41.8**	**1,944**
			KAUAI		
1981	8	16.2	130	46.6	61
1982	5	17.0	85	48.2	41
1983	3	16.7	50	52.9	26
1984	5	22.0	110	54.8	60
1985	**10**	**15.0**	**150**	**37.4**	**56**
			MAUI/MOLOKAI		
1981	135	20.1	2,720	32.6	887
1982	120	20.6	2,475	30.7	760
1983	145	21.2	3,080	35.4	1,090
1984	125	21.0	2,620	35.1	920
1985	**135**	**18.9**	**2,550**	**36.1**	**921**
			OAHU		
1981	12	23.3	280	50.4	141
1982	10	18.5	185	45.8	85
1983	17	22.4	380	48.6	185
1984	20	23.0	460	50.7	233
1985	**15**	**30.0**	**450**	**47.8**	**215**

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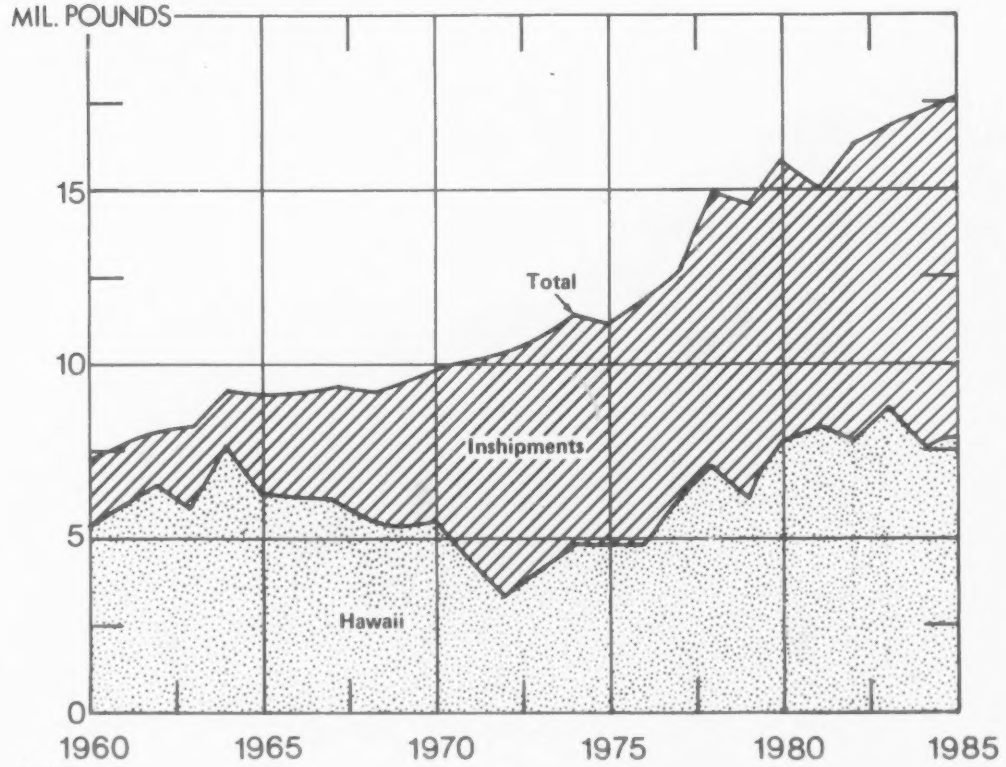
[1] Sum of island estimates may not add to State total due to rounding.

TOMATOES: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Production [2]					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	47	58	43	56	**46**	695	822	585	878	**750**	41.2	34.4	45.5	35.1	**37.7**
February	53	58	45	41	**42**	582	660	748	901	**808**	47.0	40.4	42.1	37.3	**40.8**
March	53	52	45	58	**49**	678	734	808	873	**748**	48.4	36.9	44.5	38.6	**42.8**
April	54	50	49	54	**52**	787	746	783	736	**747**	44.6	31.6	45.9	41.9	**47.2**
May	58	52	56	41	**52**	917	572	911	603	**640**	33.6	29.3	42.7	42.4	**42.0**
June	59	54	48	43	**44**	847	726	766	684	**608**	25.8	34.3	35.2	40.9	**39.5**
July	46	50	43	42	**38**	730	733	564	557	**686**	27.8	31.6	33.2	38.9	**37.5**
August	46	42	46	43	**38**	610	593	675	465	**567**	29.8	32.6	34.9	43.6	**35.6**
September	46	47	50	34	**40**	514	520	727	427	**493**	32.9	32.0	33.0	44.0	**34.1**
October	40	41	50	28	**48**	517	511	643	376	**686**	32.4	33.8	33.8	44.1	**34.9**
November	49	47	42	30	**42**	659	654	652	493	**414**	31.7	36.0	35.6	46.9	**40.4**
December	52	47	53	43	**48**	764	574	838	707	**653**	30.3	41.6	35.5	39.0	**47.2**
Total or average	280	260	290	280	**300**	8,300	7,800	8,700	7,700	**7,800**	35.3	34.7	38.7	40.3	**40.2**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

MARKET SUPPLY: Fresh Market Tomatoes, State of Hawaii, 1960-85



HASS

MINOR CROPS: Acreage, yield, production, price, and value, State of Hawaii, 1981-85

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
BITTERMELON					
1981	25	11.6	290	65.2	189
1982	16	11.6	185	84.5	156
1983	20	13.0	260	66.8	174
1984	25	13.2	330	57.7	190
1985	20	**10.5**	**210**	**78.0**	**164**
ORIENTAL SQUASH (HYOTAN AND TOGAN)					
1981	55	14.0	770	17.4	134
1982	35	12.7	445	28.8	128
1983	40	13.9	555	21.9	122
1984	50	13.0	650	24.0	156
1985	35	**14.0**	**490**	**26.3**	**129**
PARSLEY					
1981	20	14.0	280	68.7	192
1982	18	14.4	260	73.4	191
1983	25	13.2	330	70.4	232
1984	30	13.8	415	78.1	324
1985	25	**12.4**	**310**	**80.1**	**248**
RADISH					
1981	20	12.0	240	34.0	82
1982	26	10.4	270	34.4	93
1983	35	9.4	330	32.8	108
1984	35	8.6	300	32.4	97
1985	35	**8.9**	**310**	**35.9**	**111**
CHINESE PEAS					
1981	16	4.4	70	186.9	131
1982	10	5.0	50	192.0	96
1983	15	5.3	80	196.1	157
1984	15	5.3	80	196.5	157
1985	15	**5.3**	**80**	**196.6**	**157**

WATERMELONS: Acreage, yield, production, price, and value, by islands, 1981-85

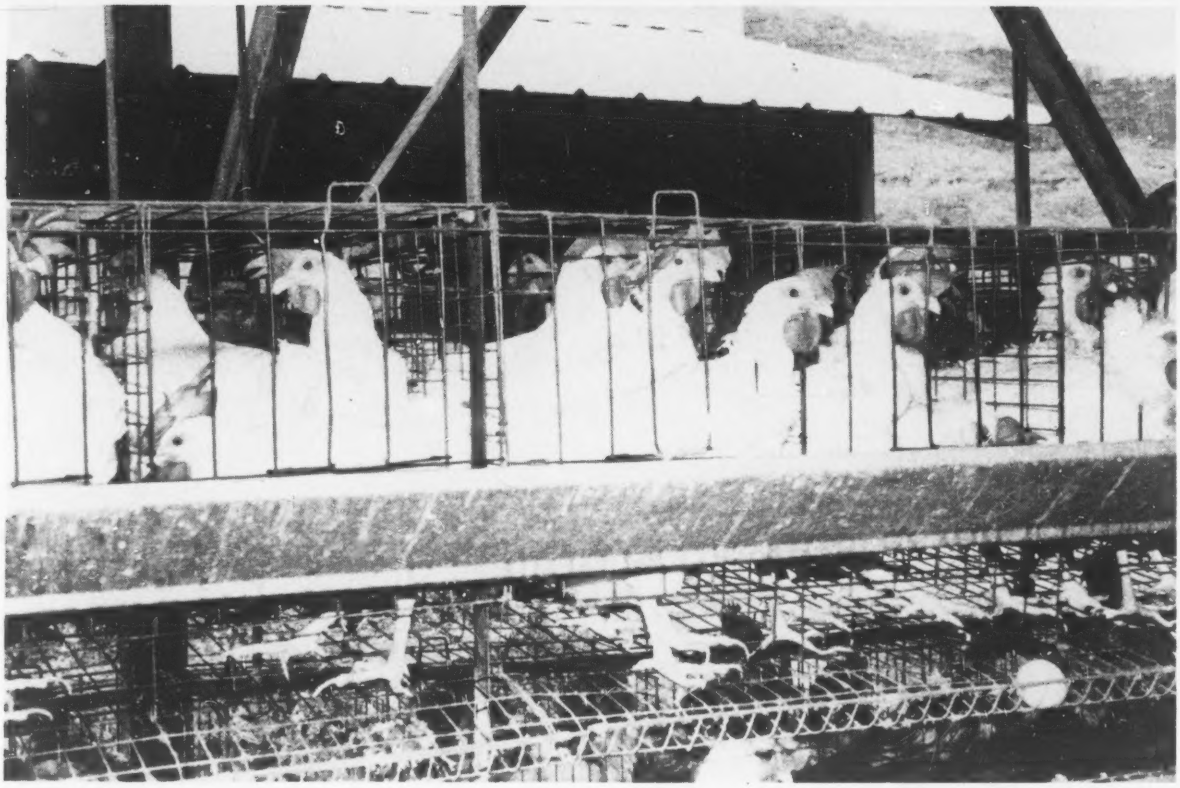
Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1981	150	10.7	1,610	25.7	414
1982	165	13.3	2,200	24.9	548
1983	310	12.5	3,860	19.9	768
1984	400	15.2	6,090	18.5	1,127
1985	**480**	**18.3**	**8,800**	**17.0**	**1,496**
			HAWAII		
1981	30	7.0	210	20.0	42
1982	18	8.6	155	23.1	36
1983	15	8.0	120	20.9	25
1984	10	6.5	65	22.4	14
1985	**5**	**8.0**	**40**	**22.8**	**9**
			KAUAI		
1981	7	11.4	80	28.0	22
1982	18	15.0	270	20.2	55
1983	55	13.5	740	19.0	141
1984	45	16.9	760	19.2	146
1985	**45**	**10.2**	**460**	**20.3**	**93**
			MAUI/MOLOKAI		
1981	43	13.0	560	23.0	129
1982	53	16.5	875	22.0	192
1983	170	13.3	2,260	17.9	405
1984	270	16.8	4,525	17.5	792
1985	**345**	**20.7**	**7,150**	**16.4**	**1,173**
			OAHU		
1981	70	10.9	760	29.1	221
1982	76	11.8	900	29.5	265
1983	70	10.6	740	26.6	197
1984	75	9.9	740	23.7	175
1985	**85**	**13.5**	**1,150**	**19.2**	**221**

[1] Sum of island estimates may not add to State total due to rounding.

WATERMELONS: Acreage, production, and price, State of Hawaii, 1981-85

Month	Acreage harvested [1]					Production					Farm price				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	Acres					1,000 pounds					Cents per pound				
January	4	1	2	1	**6**	20	7	11	5	**14**	19.0	22.0	21.8	28.8	**23.1**
February	3	1	0	1	**4**	15	2	0	3	**12**	19.0	23.2	0	25.8	**31.3**
March	7	2	0	11	**3**	36	2	0	58	**18**	23.5	40.0	0	19.8	**30.0**
April	14	2	19	33	**28**	77	4	168	457	**250**	26.4	40.0	22.7	23.6	**29.1**
May	20	5	66	73	**61**	125	36	697	1,045	**1,662**	27.9	25.4	23.4	22.6	**20.8**
June	26	16	78	86	**73**	334	123	744	919	**1,890**	26.0	24.8	21.1	21.5	**15.1**
July	26	54	63	59	**81**	124	437	567	999	**1,718**	25.5	28.3	18.8	17.1	**14.9**
August	20	75	51	54	**116**	277	801	670	816	**1,649**	26.0	23.4	17.1	16.8	**13.9**
September	37	39	67	77	**98**	274	309	458	769	**608**	24.4	20.5	19.3	15.0	**19.5**
October	32	31	40	41	**61**	240	187	348	691	**648**	27.5	26.6	17.5	13.3	**18.0**
November	8	24	19	22	**41**	56	216	160	229	**287**	23.2	28.6	18.0	17.3	**18.5**
December	3	12	4	10	**15**	32	76	37	99	**44**	22.5	24.1	18.7	17.1	**19.5**
Total or average . .	150	165	310	400	**480**	1,510	2,200	3,860	6,090	**8,800**	25.7	24.9	19.9	18.5	**17.0**

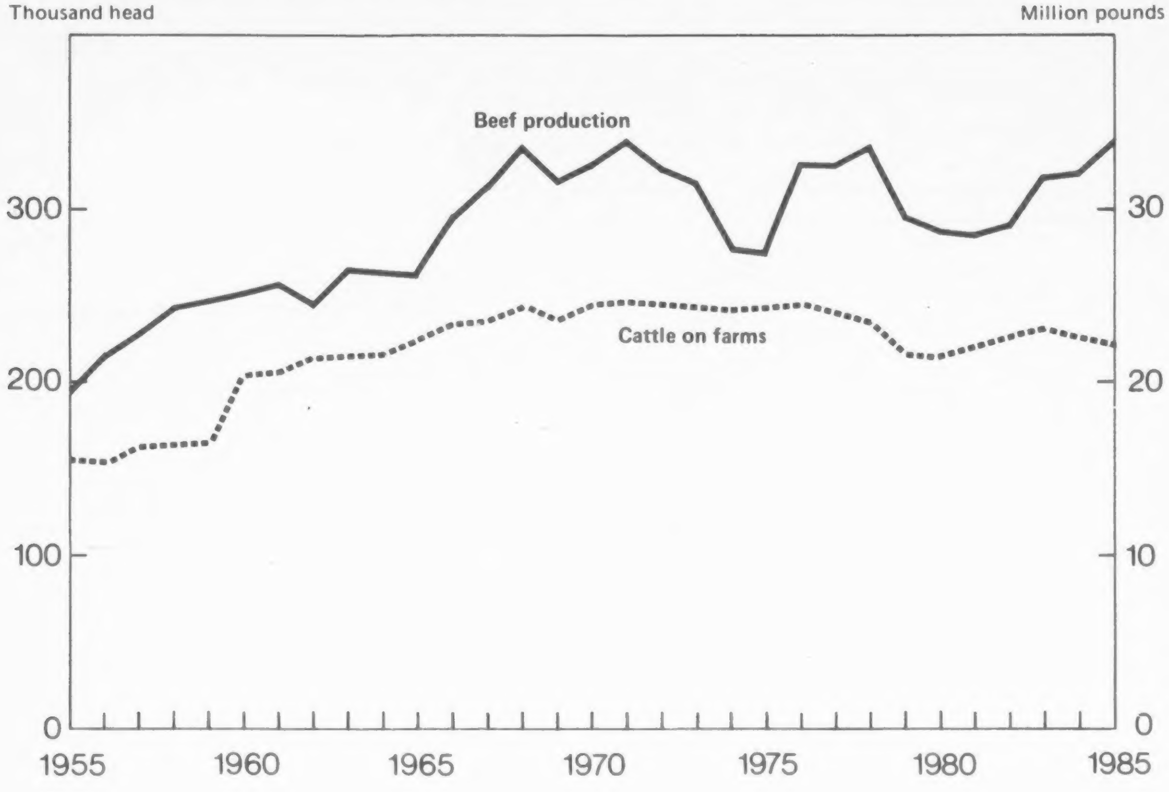
[1] Sum of monthly data exceeds total because harvest period longer than 1 month.



1985 LIVESTOCK SUMMARY

Cash receipts from livestock marketings during 1985 totaled $82.8 million, a decline of $4.2 million from 1984. The 5 percent decrease in farm revenue resulted from lower returns from all livestock items exept honey. Although revenues generated by the **DAIRY** industry were below a year ago, the $28.3 million earned during 1985 was still enough to retain its rank as the number one livestock enterprise for the second consecutive year. An increase in the average price received at $20.25 per cwt. partially offset the 4 percent decline in milk production to 142 million pounds. In spite of an 8 percent increase in **CATTLE** marketings, cash receipts declined 5 percent to $26.6 million, as cattle prices experienced the largest decrease since 1981. The average live weight price received during 1985 was 40.9 cents a pound, 5.5 cents below the previous year. The number of cattle and calves on Hawaii's ranches January 1, 1986, totaled 209,000 head, a drop of 12,000 from a year earlier as dry conditions and lower prices prompted increased, and in some cases, earlier than normal marketings. Returns generated from **EGG, BROILER, AND CHICKEN** sales decreased 9 percent from the previous year. Egg production increased to 220.5 million eggs but was not enough to offset a price decrease of 12.6 cents per dozen. Total revenues for eggs dropped $1.5 million to $14.0 million. Although the average price for broilers increased, lower marketings reduced returns 7 percent to $4.7 million. The value of chickens slaughtered increased 21 percent to $234,000 as higher marketings offset a lower price for 1985. The slight decline in **HOG** revenues to $8.0 million was due to the small decrease in marketings and farm prices from a year earlier. The hog and pig inventory for December 1, 1985, was up 8,000 head to 55,000, reversing a four year decline. Increases in both **HONEY** production and prices returned $779,000 for honey and beeswax in 1985.

Hawaii Cattle Numbers and Beef Production



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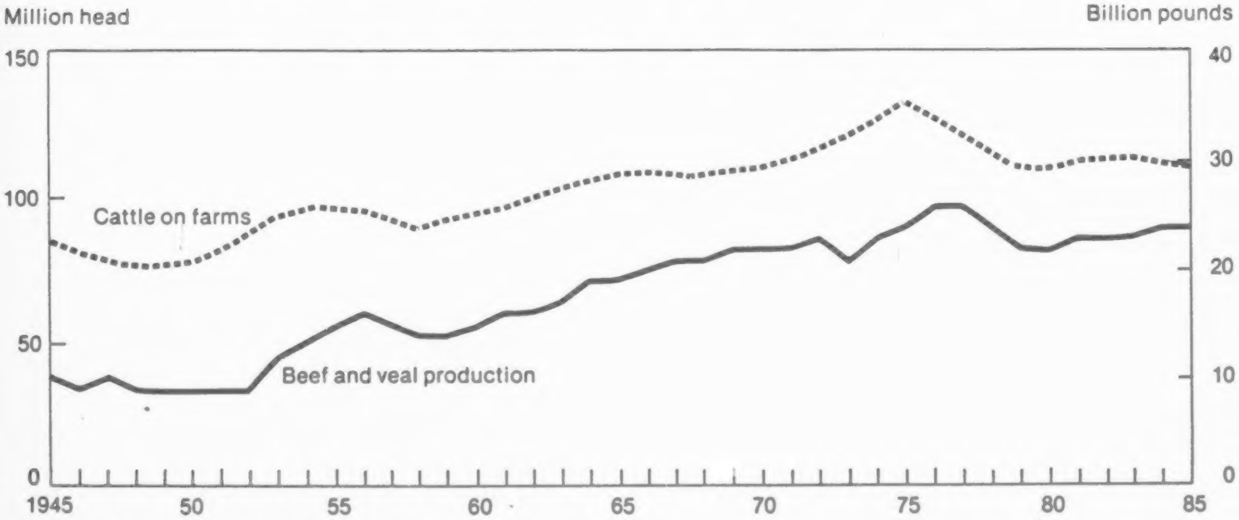
U.S. Cattle Numbers and Beef Production



1985 production forecast. Cattle and calves on farms January 1.

USDA

CATTLE AND CALVES: January 1 inventory by sex classes and weight, by islands, 1982-86

Year	All cattle and calves	All cows and heifers that have calved			Heifers 500 pounds and over				Steers 500 lbs. and over	Bulls 500 lbs. and over	Steers, heifers, and bulls under 500 lbs.
		Total	Beef cows	Milk cows	Total	Beef cow replacements	Milk cow replacements	Other			
	1,000 head										
	STATE[1]										
1982 . .	228	93	80	13	46	21	8	17	27	8	54
1983 . .	230	95	83	12	41	17	8	16	29	8	57
1984 . .	226	93	81	12	45	20	7	18	26	7	55
1985 . .	221	95	83	12	41	16	6	19	23	6	56
1986 . .	**209**	**92**	**81**	**11**	**39**	**14**	**5**	**20**	**20**	**6**	**52**
	HAWAII										
1982 . .	132.3	54.8	53.1	1.7	26.3	15.8	3.3	7.2	11.6	5.4	34.2
1983 . .	133.3	57.2	55.7	1.5	24.4	12.3	4.0	8.1	12.3	5.3	34.1
1984 . .	135.8	56.6	55.1	1.5	27.1	15.4	3.1	8.6	12.5	4.8	34.8
1985 . .	128.1	59.1	57.5	1.6	21.3	10.8	3.1	7.4	8.8	4.4	34.5
1986 . .	**123.9**	**57.3**	**55.8**	**1.5**	**20.4**	**9.2**	**2.6**	**8.6**	**8.5**	**4.4**	**33.3**
	KAUAI/NIIHAU										
1982 . .	17.0	7.2	6.8	.4	2.6	1.2	.2	1.2	1.9	.5	4.8
1983 . .	18.3	7.0	6.5	.5	3.2	1.3	.3	1.6	2.7	.4	5.0
1984 . .	16.0	6.3	5.8	.5	2.9	1.4	.2	1.3	2.2	.4	4.2
1985 . .	14.4	5.7	5.2	.5	2.6	1.0	.3	1.3	2.0	.3	3.8
1986 . .	**15.0**	**5.9**	**5.4**	**.5**	**3.0**	**1.3**	**.3**	**1.4**	**2.0**	**.4**	**3.7**
	MAUI										
1982 . .	39.5	16.0	14.9	1.1	7.4	3.0	.5	3.9	5.6	1.2	9.3
1983 . .	36.3	15.7	14.6	1.1	5.3	2.4	.6	2.3	3.5	1.4	10.4
1984 . .	35.0	15.9	14.9	1.0	5.7	2.3	.6	2.8	3.4	1.3	8.7
1985 . .	33.9	15.1	14.1	1.0	5.7	2.4	.5	2.8	3.0	1.0	9.1
1986 . .	**31.7**	**14.6**	**13.6**	**1.0**	**5.0**	**2.2**	**.3**	**2.5**	**2.8**	**.9**	**8.4**
	MOLOKAI/LANAI										
1982 . .	6.5	3.7	3.7	0	.5	.3	0	.2	.2	.2	1.9
1983 . .	6.4	3.7	3.7	0	.7	.4	0	.3	.4	.2	1.4
1984 . .	5.9	3.5	3.5	0	.4	.3	0	.1	.2	.2	1.6
1985 . .	7.4	3.8	3.8	0	1.0	.7	0	.1	.2	.2	1.9
1986 . .	**5.4**	**3.5**	**3.5**	**0**	**.4**	**.1**	**0**	**.3**	**.4**	**.1**	**1.0**
	OAHU										
1982 . .	32.7	11.3	1.8	9.5	9.2	.5	4.0	4.7	7.8	.2	4.2
1983 . .	35.7	11.7	2.4	9.3	7.6	.6	3.3	3.7	10.2	.4	5.8
1984 . .	33.3	11.0	1.6	9.4	8.7	.3	3.3	5.1	8.1	.2	5.3
1985 . .	37.2	11.4	2.5	8.9	10.4	.6	2.3	7.5	8.7	.4	6.3
1986 . .	**33.0**	**10.8**	**2.5**	**8.3**	**10.1**	**.8**	**2.2**	**7.1**	**6.3**	**.3**	**5.5**

[1] State totals may not add due to rounding.

CATTLE: Number of operations, January 1, by size group, by islands, 1981-85[1]

Year	Hawaii		Kauai/Niihau		Maui		Molokai		Oahu		State	
	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle
	Number											
1981	425	220	175	80	195	80	25	10	80	50	900	440
1982	490	230	190	85	200	85	30	10	90	50	1,000	460
1983	450	215	180	75	205	80	30	10	85	50	950	430
1984	395	205	165	70	190	80	25	10	75	45	850	410
1985	**400**	**180**	**165**	**75**	**170**	**75**	**35**	**15**	**80**	**45**	**850**	**390**

[1] Difference between "Total" and "20+" is operations having 1-19 head of cattle (dairy and/or beef).

CATTLE AND CALVES: Number sold, pounds, price, and value, by islands, 1981-85

Year	Number sold[1]	Pounds sold (live weight)[2]	Farm price (live weight)[3]	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
			STATE	
1981	56	52,215	54.40	28,405
1982	56	52,910	52.20	27,619
1983	60	59,100	49.60	29,308
1984	65	60,600	46.40	28,101
1985	**74**	**65,160**	**40.90**	**26,632**
			HAWAII	
1981	35.5	33,113	54.50	18,059
1982	37.7	36,211	52.20	18,907
1983	38.0	38,188	49.30	18,831
1984	43.0	39,802	45.50	18,126
1985	**49.5**	**42,567**	**39.60**	**16,870**
			KAUAI/NIIHAU	
1981	4.6	4,266	53.80	2,295
1982	3.9	3,629	52.70	1,913
1983	4.5	4,143	51.60	2,139
1984	4.3	3,988	51.20	2,041
1985	**3.8**	**3,858**	**48.20**	**1,860**
			MAUI	
1981	10.3	9,161	55.30	5,067
1982	10.0	8,626	53.40	4,603
1983	11.8	10,850	52.10	5,655
1984	12.0	11,134	48.20	5,364
1985	**15.2**	**13,541**	**43.70**	**5,920**
			MOLOKAI	
1981	2.4	2,352	56.60	1,331
1982	2.7	2,710	53.10	1,440
1983	2.3	2,446	50.60	1,238
1984	3.0	3,056	49.90	1,525
1985	**2.5**	**2,307**	**39.00**	**900**
			OAHU	
1981	3.2	3,323	49.70	1,653
1982	1.7	1,734	43.60	756
1983	3.4	3,473	41.60	1,445
1984	2.7	2,620	39.90	1,045
1985	**3.0**	**2,887**	**37.50**	**1,082**

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[1] Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves; but, excludes interfarm sales. State totals may not add due to rounding.

[2] Excludes custom slaughter for use on farms where produced.

[3] Prices are equivalent delivered slaughterhouse for sales on island of production and delivered shippers' dock for interisland and out-of-State sales.

CATTLE: Number of feedlot slaughter cattle sold, pounds, price, and value, by islands, 1981-85 [1]

Year	Number sold [2]	Pounds sold (live weight) [3]	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
			STATE	
1981	29.2	29,449	60.10	17,711
1982	29.4	30,428	57.90	17,624
1983	31.9	35,408	54.90	19,439
1984	33.8	36,245	51.80	18,781
1985	36.5	37,297	45.60	17,007
			HAWAII	
1981	20.2	20,572	59.90	12,323
1982	22.0	23,131	57.80	13,370
1983	22.8	25,669	54.60	14,015
1984	23.3	25,381	51.30	13,017
1985	25.2	26,022	44.70	11,632
			KAUAI/NIIHAU	
1981	1.0	1,075	59.10	635
1982	.9	991	55.70	552
1983	.9	992	52.50	521
1984	1.0	1,098	49.30	541
1985	1.0	1,043	44.10	460
			MAUI	
1981	5.5	5,169	61.40	3,174
1982	4.4	3,993	60.50	2,416
1983	5.8	5,871	57.50	3,376
1984	6.4	6,406	54.50	3,493
1985	8.3	8,114	48.90	3,968
			MOLOKAI	
1981	1.7	1,790	59.50	1,065
1982	1.9	2,058	55.10	1,134
1983	1.6	1,828	52.80	965
1984	2.4	2,614	51.50	1,346
1985	1.1	1,199	42.70	512
			OAHU	
1981	.8	843	61.00	514
1982	.2	255	59.60	152
1983	.8	1,048	53.60	562
1984	.7	746	51.50	384
1985	.9	919	47.30	435

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[1] Animals fattened on grain or other concentrates which produce a carcass expected to grade good or better.
[2] Includes custom slaughter for home use on farms where produced but excludes interfarm sales.
[3] Excludes custom slaughter for use on farms where produced.

CATTLE: Number of range and other slaughter cattle sold, pounds, price, and value, by islands, 1981-85[1]

Year	Number sold [2]	Pounds sold (live weight) [3]	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
			STATE	
1981	26.8	22,766	47.00	10,694
1982	26.6	22,482	44.50	9,995
1983	28.1	23,692	41.70	9,869
1984	31.2	24,355	38.30	9,320
1985	**37.5**	**27,863**	**34.50**	**9,625**
			HAWAII	
1981	15.3	12,541	45.70	5,736
1982	15.7	13,080	42.30	5,537
1983	15.2	12,519	38.50	4,816
1984	19.7	14,421	35.40	5,109
1985	**24.3**	**16,545**	**31.70**	**5,238**
			KAUAI/NIIHAU	
1981	3.6	3,191	52.00	1,660
1982	3.0	2,638	51.60	1,361
1983	3.6	3,151	51.30	1,618
1984	3.3	2,890	51.90	1,500
1985	**2.8**	**2,815**	**49.70**	**1,400**
			MAUI	
1981	4.8	3,992	47.40	1,893
1982	5.6	4,633	47.20	2,187
1983	6.0	4,979	45.80	2,279
1984	5.6	4,728	39.60	1,871
1985	**6.9**	**5,427**	**36.00**	**1,953**
			MOLOKAI	
1981	.7	562	47.30	266
1982	.8	652	46.90	306
1983	.7	618	44.20	273
1984	.6	442	40.50	179
1985	**1.4**	**1,108**	**35.00**	**388**
			OAHU	
1981	2.4	2,480	45.90	1,139
1982	1.5	1,479	40.80	604
1983	2.6	2,425	36.40	883
1984	2.0	1,874	35.30	661
1985	**2.1**	**1,968**	**32.90**	**647**

[1] Animals fattened primarily on grass and other roughage; may include some supplementary feeding of grain. Dairy cattle; calves included.
[2] Includes custom slaughter for home use on farms where produced but excludes interfarm sales.
[3] Excludes custom slaughter for use on farms where produced.

CATTLE: Commercial slaughter and marketings, by class, State of Hawaii, 1981-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
						Commercial slaughter [1]							
						Number -- 1,000 head [2]							
1981 . . .	4.0	3.9	4.6	4.4	3.7	4.5	4.7	4.9	5.2	5.1	4.6	5.2	54.6
1982 . . .	4.6	4.1	4.6	4.6	4.6	4.4	4.1	4.5	4.8	4.6	4.7	4.5	54.0
1983 . . .	4.5	4.5	5.5	4.7	4.8	4.8	4.5	5.1	4.5	4.2	4.3	4.7	56.0
1984 . . .	4.9	4.8	4.5	4.5	4.4	4.8	5.8	5.1	4.0	5.1	4.7	4.9	57.6
1985 . . .	5.2	4.6	5.0	5.0	6.2	5.4	6.5	5.0	4.7	5.8	5.3	5.8	64.6
						Dressed weight -- 1,000 pounds							
1981 . . .	2,032	2,026	2,394	2,285	1,910	2,344	2,418	2,511	2,720	2,646	2,351	2,676	28,313
1982 . . .	2,342	2,055	2,334	2,392	2,320	2,298	2,129	2,377	2,699	2,506	2,576	2,499	28,527
1983 . . .	2,488	2,490	3,060	2,584	2,662	2,610	2,441	2,895	2,573	2,408	2,419	2,651	31,280
1984 . . .	2,721	2,692	2,536	2,475	2,398	2,608	3,072	2,783	2,137	2,656	2,458	2,624	31,160
1985 . . .	2,727	2,425	2,574	2,578	3,264	2,897	3,373	2,477	2,374	3,057	2,740	2,975	33,461
						Marketings [3]							
						Feedlot steers and heifers, dressed weight -- 1,000 pounds							
1981 . . .	1,137	951	1,170	1,188	902	1,322	1,410	1,563	1,750	1,672	1,426	1,677	16,168
1982 . . .	1,521	1,234	1,354	1,436	1,412	1,254	1,209	1,337	1,635	1,397	1,441	1,475	16,705
1983 . . .	1,560	1,617	1,825	1,449	1,843	1,599	1,577	1,878	1,547	1,469	1,480	1,595	19,439
1984 . . .	2,017	1,761	1,516	1,449	1,477	1,676	2,058	1,596	1,170	1,571	1,602	2,005	19,898
1985 . . .	1,818	1,479	1,581	1,394	2,173	1,806	2,109	1,235	1,281	2,000	1,692	1,908	20,476
						Range steers and heifers, dressed weight -- 1,000 pounds							
1981 . . .	460	706	698	508	461	623	584	546	482	532	450	453	6,503
1982 . . .	427	359	458	580	467	612	501	508	545	581	611	604	6,253
1983 . . .	562	515	639	440	463	545	417	523	499	491	493	631	6,218
1984 . . .	530	407	433	527	408	400	506	534	462	528	402	467	5,604
1985 . . .	464	500	393	478	414	500	572	568	430	365	407	505	5,596
						Cows, dressed weight -- 1,000 pounds							
1981 . . .	383	291	420	479	483	352	369	361	426	361	425	441	4,791
1982 . . .	319	380	428	304	400	365	379	485	464	434	430	384	4,772
1983 . . .	341	330	534	553	299	443	413	453	452	416	400	430	5,064
1984 . . .	465	446	438	407	423	439	515	485	415	514	448	447	5,442
1985 . . .	401	403	466	598	592	526	605	591	576	561	583	552	6,454
						Bulls, dressed weight -- 1,000 pounds							
1981 . . .	84	110	138	142	96	80	88	73	94	113	82	104	1,204
1982 . . .	119	126	137	115	84	110	83	90	98	138	138	80	1,318
1983 . . .	83	87	121	201	116	82	93	100	134	91	104	52	1,264
1984 . . .	90	121	124	104	100	101	118	116	83	90	62	63	1,172
1985 . . .	83	82	173	147	124	104	126	122	126	170	96	49	1,402

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[1] Includes custom slaughter for home use. To convert dressed weight to live weight, divide dressed weight by 0.549 or multiply by a factor of 1.8215.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] Excludes custom slaughter for home use and calves shipped out-of-State,but includes onfarm sales.

CATTLE: Farm price, by class, State of Hawaii, 1981-85 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Feedlot steers and heifers, dressed weight -- Cents per pound												
1981 . . .	110.5	110.0	107.5	107.5	114.0	113.5	114.5	110.0	109.5	108.0	105.5	106.5	109.5
1982 . . .	104.5	105.5	107.5	110.0	113.0	114.0	108.0	106.5	104.5	97.5	99.0	97.0	105.5
1983 . . .	98.5	98.0	103.5	109.5	107.5	105.5	102.5	98.0	93.5	94.0	92.5	95.5	100.0
1984 . . .	98.5	99.5	98.5	99.5	97.0	94.5	94.0	94.0	93.5	90.5	88.0	89.5	95.0
1985 . . .	**87.5**	**88.0**	**88.5**	**88.0**	**85.5**	**87.5**	**80.0**	**77.0**	**72.5**	**79.5**	**82.5**	**85.5**	**83.5**
	Range steers and heifers, dressed weight -- Cents per pound												
1981 . . .	94.0	90.5	88.0	91.0	94.0	92.5	95.0	95.0	93.5	92.5	90.5	92.5	92.5
1982 . . .	98.5	95.5	97.5	99.0	93.0	93.0	88.0	87.5	86.5	87.0	78.5	81.0	90.0
1983 . . .	86.0	86.0	84.5	88.0	87.5	86.5	84.5	85.5	86.5	85.0	87.0	87.0	86.0
1984 . . .	80.5	80.0	78.5	75.5	77.0	83.0	80.0	82.0	80.0	79.5	78.5	81.5	79.5
1985 . . .	**76.0**	**78.5**	**78.5**	**73.0**	**77.5**	**74.0**	**72.0**	**70.5**	**69.5**	**74.0**	**71.0**	**71.0**	**73.5**
	Cows, dressed weight -- Cents per pound												
1981 . . .	79.0	80.5	77.5	77.0	78.0	77.0	77.5	78.0	76.0	76.0	75.0	74.5	77.0
1982 . . .	76.0	73.5	73.5	73.5	71.0	74.0	69.0	69.5	69.5	70.5	66.5	66.5	71.0
1983 . . .	66.0	65.5	65.0	65.0	64.0	66.0	65.5	63.5	62.0	61.5	62.0	61.5	64.0
1984 . . .	64.0	64.5	61.0	60.5	58.0	60.5	59.0	57.0	61.0	52.5	55.5	55.5	59.0
1985 . . .	**56.0**	**57.0**	**55.5**	**54.5**	**53.5**	**57.0**	**54.5**	**57.0**	**49.5**	**47.5**	**47.5**	**49.5**	**53.0**
	Bulls, dressed weight -- Cents per pound												
1981 . . .	83.5	84.0	83.5	83.5	83.5	83.0	83.0	82.5	82.5	83.0	83.0	82.5	83.0
1982 . . .	81.0	80.0	79.5	80.0	79.5	77.0	79.0	78.5	76.5	77.5	75.0	76.0	78.5
1983 . . .	73.0	74.0	74.0	73.0	73.0	75.5	73.5	72.0	72.0	73.0	71.5	73.0	73.0
1984 . . .	71.5	71.5	71.0	69.5	66.0	67.0	66.5	64.5	66.0	63.5	61.0	64.5	67.5
1985 . . .	**64.5**	**63.0**	**63.0**	**63.5**	**63.5**	**64.0**	**62.5**	**59.5**	**57.5**	**57.5**	**55.5**	**57.0**	**61.0**
	All cattle, dressed weight -- Cents per pound												
1981 . . .	100.0	98.0	95.0	96.0	99.0	101.5	103.0	101.5	101.0	99.5	96.5	98.0	99.0
1982 . . .	98.5	96.5	98.0	101.5	101.0	100.5	95.5	94.0	94.5	89.5	88.0	88.0	95.0
1983 . . .	90.5	90.5	92.0	93.5	98.0	94.0	92.5	89.5	86.0	86.0	85.5	87.5	90.5
1984 . . .	88.5	90.0	87.5	87.0	85.5	86.0	85.0	84.0	83.5	80.5	80.0	82.0	85.0
1985 . . .	**80.5**	**80.0**	**79.0**	**76.5**	**78.0**	**78.5**	**73.5**	**70.0**	**65.5**	**72.0**	**72.5**	**76.0**	**75.5**

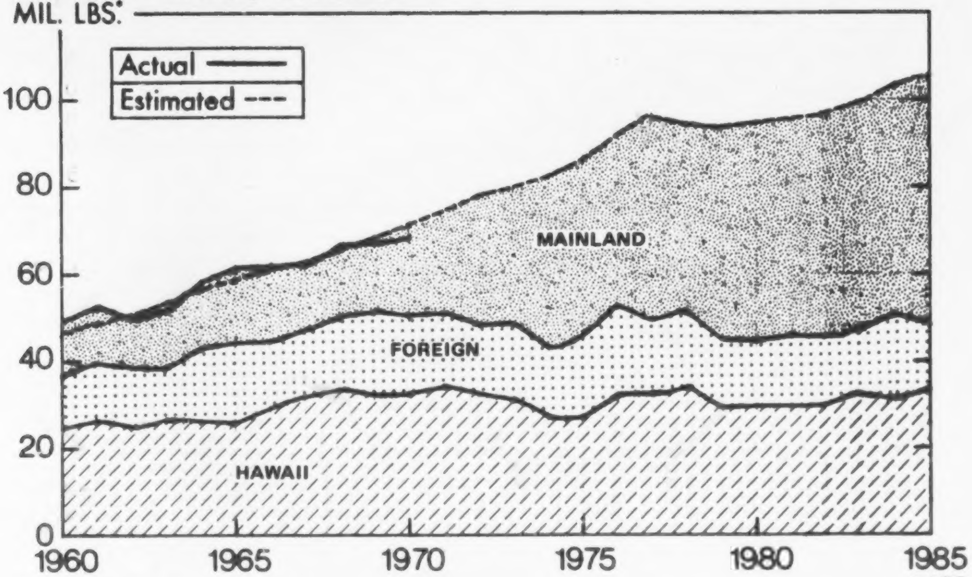
[1] Prices are for commercial slaughter cattle.

CATTLE AND CALVES: Inventory and disposition, State of Hawaii, 1981-85

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
				1,000 head			
1981 . . .	220	72	*	56	1	7	228
1982 . . .	228	71	*	56	2	11	230
1983 . . .	230	70	*	60	2	12	226
1984 . . .	226	73	*	65	1	12	221
1985 . . .	221	71	1	74	1	9	209

* = Less than 50.

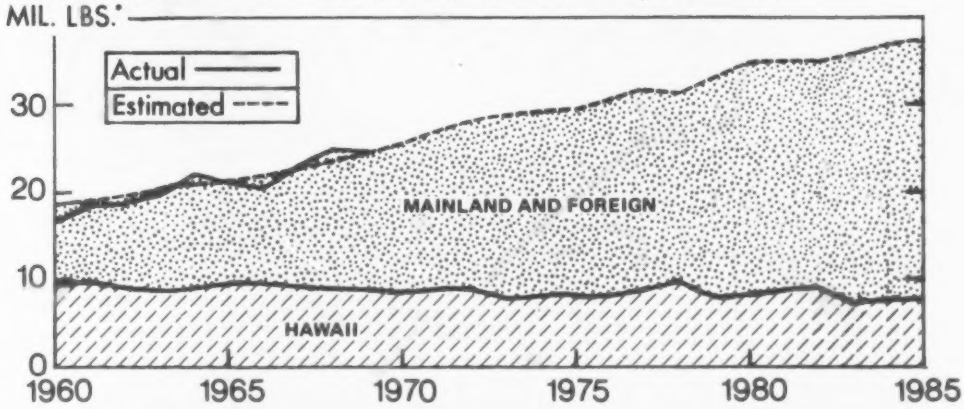
MARKET SUPPLY: Beef and Veal, State of Hawaii, 1960-85



*Carcass-weight equivalent.

HASS

MARKET SUPPLY: Pork, State of Hawaii, 1960-85



*Carcass-weight equivalent.

HASS

MARKET SUPPLY: Beef and veal, pork, State of Hawaii, 1976-85

Year	Beef and veal				Pork			
	Mainland	Foreign	Hawaii [1]	Total [2]	Mainland	Foreign	Hawaii	Total [2]
	1,000 pounds (carcass weight equivalent)							
1976 . . .	39,839	20,414	32,320	92,573	23,287	4	7,781	31,072
1977 . . .	44,645	17,493	32,325	94,463	22,399	2	8,762	31,163
1978 . . .	43,553	17,146	33,544	94,243	22,076	0	9,869	31,945
1979 . . .	47,453	16,030	29,325	92,808	25,796	45	7,785	33,626
1980 . . .	50,348	15,202	28,809	94,359	26,685	133	8,012	34,830
1981 . . .	49,622	16,504	28,666	94,792	25,827	97	8,708	34,632
1982 . . .	51,709	16,273	29,048	97,030	26,392	27	8,557	34,976
1983 . . .	53,259	14,555	31,985	99,799	27,505	802	7,693	36,000
1984 . . .	55,724	16,548	32,116	104,388	28,739	875	7,878	37,492
1985 . . .	55,893	15,263	33,928	105,084	28,550	1,518	7,859	37,927

[1] Excludes slaughter cattle and calves shipped out-of-State.

[2] After 1971 total supply was estimated and mainland inshipments derived. See page 100 for detailed explanation of the estimating procedure.

MILK: Number of operations, number of milk cows, production, sales, price, and value, by islands, 1981-85

Year	Operations [1]		Annual average milk cows	Milk per cow	Production [2]	Sold [2]	Average price	Value of sales
	Total	10+ milk cows						
	Number			Pounds	Million pounds		Dollars per hundredweight	1,000 dollars
					STATE			
1981 . .	80	24	12,700	11,811	150.0	147.9	20.50	30,320
1982 . .	90	23	12,500	11,520	144.0	106.4	20.59	21,908
1983 . .	90	23	12,500	11,920	149.0	143.7	20.09	28,869
1984 . .	90	22	12,100	12,231	148.0	146.0	20.06	29,288
1985 . .	**90**	**20**	**11,300**	**12,566**	**142.0**	**139.8**	**20.25**	**28,310**
					HAWAII/KAUAI/MAUI [3]			
1981 . .	[4] 57	7	3,100	10,710	33.2	31.3	19.76	6,184
1982 . .	[4] 68	7	3,100	10,710	33.2	30.8	20.20	6,221
1983 . .	[4] 67	7	3,100	10,840	33.6	31.5	20.25	6,373
1984 . .	[4] 69	6	3,000	11,835	35.5	33.8	20.13	6,803
1985 . .	**70**	**6**	**3,000**	**11,565**	**34.7**	**32.8**	**20.12**	**6,600**
					OAHU			
1981 . .	[4] 23	17	9,600	[4]12,165	116.8	116.6	20.70	24,136
1982 . .	[4] 22	16	9,400	11,785	110.8	75.6	20.75	15,687
1983 . .	[4] 23	16	9,400	12,275	115.4	112.2	20.05	22,496
1984 . .	[4] 21	16	9,100	12,365	112.5	112.2	20.04	22,485
1985 . .	**20**	**14**	**8,300**	**12,930**	**107.3**	**107.0**	**20.29**	**21,710**

[1] At end of year. Difference between "Total" and "10+" is operations having 1-9 milk cows.
[2] Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.
[3] Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.
[4] Revised.

MILK-FEED RATIO, State of Hawaii, 1981-85 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Pounds											
1981 . .	1.51	1.68	1.64	1.65	1.64	1.62	1.67	1.66	1.79	1.83	1.82	1.78
1982 . .	1.81	1.78	1.62	1.73	1.77	1.72	1.66	1.72	1.79	1.79	1.82	1.70
1983 . .	1.74	1.77	1.76	1.69	1.64	1.52	1.52	1.56	1.66	1.67	1.64	1.57
1984 . .	1.57	1.63	1.59	1.52	1.61	1.62	1.50	1.50	1.76	1.81	1.72	1.71
1985 . .	**1.76**	**1.75**	**1.77**	**1.72**	**1.73**	**1.68**	**1.77**	**1.80**	**1.90**	**1.90**	**1.84**	**1.89**

[1] Pounds of 20-percent dairy feed equal in value to 1 pound of whole milk.

MILK: Number of cows, milk production, and price, State of Hawaii, 1981-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Average number of milk cows on hand during month -- 1,000 head												
1981 . . .	13.0	12.9	12.9	12.7	12.7	12.7	12.5	12.5	12.5	12.6	12.7	12.7	12.7
1982 . . .	12.6	12.6	12.5	12.4	12.4	12.3	12.4	12.4	12.4	12.4	12.4	12.4	12.5
1983 . . .	12.5	12.5	12.5	12.5	12.6	12.6	12.6	12.4	12.4	12.5	12.4	12.4	12.5
1984 . . .	12.3	12.3	12.3	12.2	12.1	12.0	11.9	12.0	12.1	12.0	12.1	12.0	12.1
1985 . . .	**11.8**	**11.7**	**11.6**	**11.4**	**11.1**	**11.1**	**11.1**	**11.1**	**11.0**	**11.0**	**11.2**	**11.3**	**11.3**
	Average monthly production per all cows in herd -- Pounds												
1981 . . .	970	905	1,015	1,030	1,070	1,000	1,030	990	935	950	930	975	11,811
1982 . . .	975	905	1,015	1,015	1,040	975	985	950	910	960	910	935	11,520
1983 . . .	975	920	1,050	1,015	1,055	1,000	1,025	1,010	960	960	945	1,015	11,920
1984 . . .	1,050	990	1,075	1,065	1,115	1,050	1,060	1,035	925	935	940	985	12,231
1985 . . .	**1,025**	**955**	**1,080**	**1,070**	**1,135**	**1,065**	**1,080**	**1,025**	**990**	**1,045**	**1,020**	**1,095**	**12,566**
	Milk production -- Million pounds												
1981 . . .	12.6	11.7	13.1	13.1	13.6	12.7	12.9	12.4	11.7	12.0	11.8	12.4	150
1982 . . .	12.3	11.4	12.7	12.6	12.9	12.0	12.2	11.8	11.3	11.9	11.3	11.6	144
1983 . . .	12.2	11.5	13.1	12.7	13.3	12.6	12.9	12.5	11.9	12.0	11.7	12.6	149
1984 . . .	12.9	12.2	13.2	13.0	13.5	12.6	12.6	12.4	11.2	11.2	11.4	11.8	148
1985 . . .	**12.1**	**11.2**	**12.5**	**12.2**	**12.6**	**11.8**	**12.0**	**11.4**	**10.9**	**11.5**	**11.4**	**12.4**	**142**
	Average price for milk sold to plants -- Dollars per hundredweight												
1981 . . .	19.24	20.97	20.49	20.57	20.56	19.84	20.05	20.32	21.05	21.10	20.95	20.46	20.50
1982 . . .	20.87	20.90	19.04	20.32	20.78	20.63	20.36	20.59	20.99	21.00	20.97	20.45	20.59
1983 . . .	20.92	20.75	20.67	20.26	20.10	18.66	18.57	19.05	20.69	20.88	20.86	19.96	20.09
1984 . . .	20.83	20.78	20.27	19.80	19.58	19.79	19.41	18.78	20.67	20.79	20.16	20.05	20.06
1985 . . .	**20.28**	**20.52**	**20.30**	**20.23**	**19.95**	**18.89**	**19.89**	**20.27**	**20.90**	**20.86**	**20.74**	**20.29**	**20.25**

HONEY: Number of operations, colonies, honey and beeswax production, price, and value, State of Hawaii, 1981-85

Year	Operations	Number of colonies	Yield per colony (honey)	Production		Average price[1]		Value of production	
				Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey	Beeswax
	Number	Thousands	Pounds	—— 1,000 pounds ——		—— Cents per pound ——		—— 1,000 dollars ——	
1981 . .	28	7	125	875	16	53.3	186.0	466	30
1982 . .	30	8	115	920	14	56.5	210.0	520	29
1983 . .	27	9	145	1,305	21	58.1	230.0	758	48
1984 . .	25	9	121	1,089	17	56.1	195.0	611	33
1985 . .	**22**	**9**	**132**	**1,184**	**18**	**62.9**	**190.0**	**745**	**34**

[1] Average of unprocessed bulk and processed packaged honey sold at wholesale and processed packaged honey sold at retail by farmers.

HOGS AND PIGS: December 1 inventory by classes and weight, by islands, 1981-85

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
	1,000 head						
	STATE [1]						
1981 . . .	55	8	47	22	13	9	3
1982 . . .	49	7	42	19	12	8	3
1983 . . .	48	7	41	19	11	8	3
1984 . . .	47	7	40	18	11	8	3
1985 . . .	55	9	46	21	13	9	3
	HAWAII						
1981 . . .	4.8	.7	4.1	2.1	1.3	.6	.1
1982 . . .	3.8	.6	3.2	1.7	.9	.5	.1
1983 . . .	3.2	.5	2.7	1.2	1.0	.4	.1
1984 . . .	3.4	.6	2.8	1.6	.5	.5	.2
1985 . . .	4.8	.8	4.0	2.0	1.1	.8	.1
	KAUAI						
1981 . . .	5.2	.8	4.4	2.4	1.2	.6	.2
1982 . . .	4.3	.7	3.6	1.8	1.2	.5	.1
1983 . . .	3.5	.6	2.9	1.6	.9	.3	.1
1984 . . .	3.9	.7	3.2	1.6	.7	.8	.1
1985 . . .	5.4	.9	4.5	2.0	1.3	.9	.3
	MAUI						
1981 . . .	10.1	1.5	8.6	3.5	2.7	1.8	.6
1982 . . .	8.2	1.2	7.0	3.1	2.0	1.4	.5
1983 . . .	8.7	1.3	7.4	3.3	2.2	1.4	.5
1984 . . .	7.5	1.1	6.4	2.6	1.8	1.4	.6
1985 . . .	10.2	1.6	8.6	3.8	2.3	1.6	.9
	MOLOKAI/LANAI						
1981 . . .	.8	.2	.6	.4	.1	.1	*
1982 . . .	.6	.1	.5	.2	.2	.1	*
1983 . . .	.9	.2	.7	.5	.1	.1	*
1984 . . .	.7	.1	.6	.2	.2	.1	.1
1985 . . .	1.0	.2	.8	.4	.2	.1	.1
	OAHU						
1981 . . .	34.5	5.0	29.5	13.5	7.9	6.3	1.8
1982 . . .	32.1	4.5	27.6	12.6	7.8	5.3	1.9
1983 . . .	31.7	4.4	27.3	12.3	7.2	5.7	2.1
1984 . . .	31.5	4.5	27.0	12.0	7.4	5.2	2.4
1985 . . .	33.6	5.2	28.4	12.9	8.2	5.5	1.8

* = Less than 500.

[1] State totals may not add due to rounding.

HOGS: Number of operations, pig crop, number and pounds sold, price, and value, by islands, 1981-85

Year	Number of operations [1]		Pig crop [2]		Number sold [3]	Pounds sold (live weight) [4]	Farm price (live weight)	Value of sales
	Total	10+	December-May	June-November				
	---- Number ----		---------- 1,000 head ----------			1,000 pounds	Dollars per hundredweight	1,000 dollars
					STATE [5]			
1981 . . .	650	420	38	40	69	11,610	72.20	8,382
1982 . . .	650	410	35	36	67	11,409	74.20	8,465
1983 . . .	650	420	32	35	59	10,257	75.80	7,775
1984 . . .	650	420	31	35	60	10,504	77.00	8,088
1985 . . .	**650**	**430**	**35**	**41**	**60**	**10,478**	**76.30**	**7,995**
					HAWAII			
1981 . . .	70	55	3.7	3.3	7.6	1,263	75.50	954
1982 . . .	75	60	2.6	2.8	5.4	954	79.50	758
1983 . . .	85	50	2.7	2.8	5.4	975	80.50	785
1984 . . .	85	55	2.4	2.9	4.7	868	84.00	729
1985 . . .	**85**	**60**	**3.0**	**3.6**	**4.7**	**933**	**81.50**	**760**
					KAUAI			
1981 . . .	115	60	3.6	3.8	5.4	938	79.50	746
1982 . . .	115	60	2.9	2.8	5.3	848	80.50	683
1983 . . .	120	50	2.3	2.8	4.9	763	83.00	633
1984 . . .	125	55	2.6	3.0	4.7	791	84.50	668
1985 . . .	**120**	**55**	**3.1**	**4.0**	**5.0**	**919**	**82.50**	**758**
					MAUI/MOLOKAI			
1981 . . .	110	70	8.7	8.9	15.8	2,787	77.00	2,146
1982 . . .	100	65	7.8	7.1	15.3	2,688	78.50	2,110
1983 . . .	115	85	[6]7.3	[6]8.2	13.4	2,402	80.00	1,922
1984 . . .	105	70	6.0	6.9	13.3	2,425	80.00	1,940
1985 . . .	**110**	**75**	**8.3**	**9.8**	**13.7**	**2,404**	**80.50**	**1,935**
					OAHU			
1981 . . .	355	235	22.3	23.8	40.0	6,622	68.50	4,536
1982 . . .	360	225	21.7	23.3	41.4	6,919	71.00	4,914
1983 . . .	330	235	19.7	21.2	35.4	6,117	72.50	4,435
1984 . . .	335	240	19.9	22.3	37.5	6,420	74.00	4,751
1985 . . .	**335**	**240**	**21.0**	**23.7**	**36.6**	**6,222**	**73.00**	**4,542**

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[1] Difference between "Total" and "10+" is operations having 1-9 hogs; current year number of operations is preliminary.
[2] Number of pigs born during the 6-month period which were still on hand or were sold.
[3] Excludes interfarm sales; includes custom slaughter for home use; includes direct sales on farms to consumers.
[4] Excludes custom slaughter for use on farms where produced and interfarm sales.
[5] State totals may not add for number of operations and pig crop due to rounding. Sales and value data are for the 12-month period, December of the previous year through November of the following year.
[6] Revised.

HOGS: Commercial slaughter and farm price, State of Hawaii, 1981-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Number of head – 1,000 head [1] [2]												
1981 . . .	3.2	3.1	3.5	3.2	3.5	3.8	3.6	3.6	3.3	3.7	3.5	4.7	42.8
1982 . . .	3.2	3.2	3.6	3.8	3.5	3.7	3.8	3.6	3.3	3.4	3.3	4.6	43.0
1983 . . .	3.2	3.3	3.6	3.5	3.6	3.7	3.7	3.8	3.6	3.5	3.5	4.9	44.0
1984 . . .	3.4	3.3	3.6	3.6	3.6	3.7	3.7	3.7	3.3	3.7	3.8	4.7	44.1
1985 . . .	3.3	3.4	3.5	3.8	3.7	3.5	3.7	3.8	3.4	3.5	3.5	4.6	43.7
	Pounds slaughtered – 1,000 pounds, dressed weight [1] [3]												
1981 . . .	447	433	484	459	518	544	525	490	466	544	501	674	6,085
1982 . . .	463	456	521	530	490	512	516	482	442	456	477	687	6,032
1983 . . .	481	471	495	501	516	501	515	503	497	497	476	672	6,125
1984 . . .	484	462	505	514	524	524	518	495	442	552	534	676	6,230
1985 . . .	470	491	514	533	560	479	509	538	466	500	534	663	6,257
	Farm price – Cents per pound, dressed weight [4]												
1981 . . .	95.0	95.5	97.0	97.0	95.0	96.0	96.0	97.5	97.5	97.5	97.5	99.0	96.5
1982 . . .	97.0	97.5	97.5	98.0	96.5	99.0	99.0	99.5	100.5	102.0	101.0	101.0	99.0
1983 . . .	102.0	101.5	100.0	99.5	101.5	100.5	101.5	99.5	101.5	102.0	103.5	102.5	101.0
1984 . . .	99.5	104.5	101.5	102.5	103.0	101.5	102.5	102.5	104.0	105.0	102.5	101.5	102.5
1985 . . .	102.5	102.5	102.5	102.5	99.5	102.5	101.0	101.0	101.5	102.0	102.0		101.5

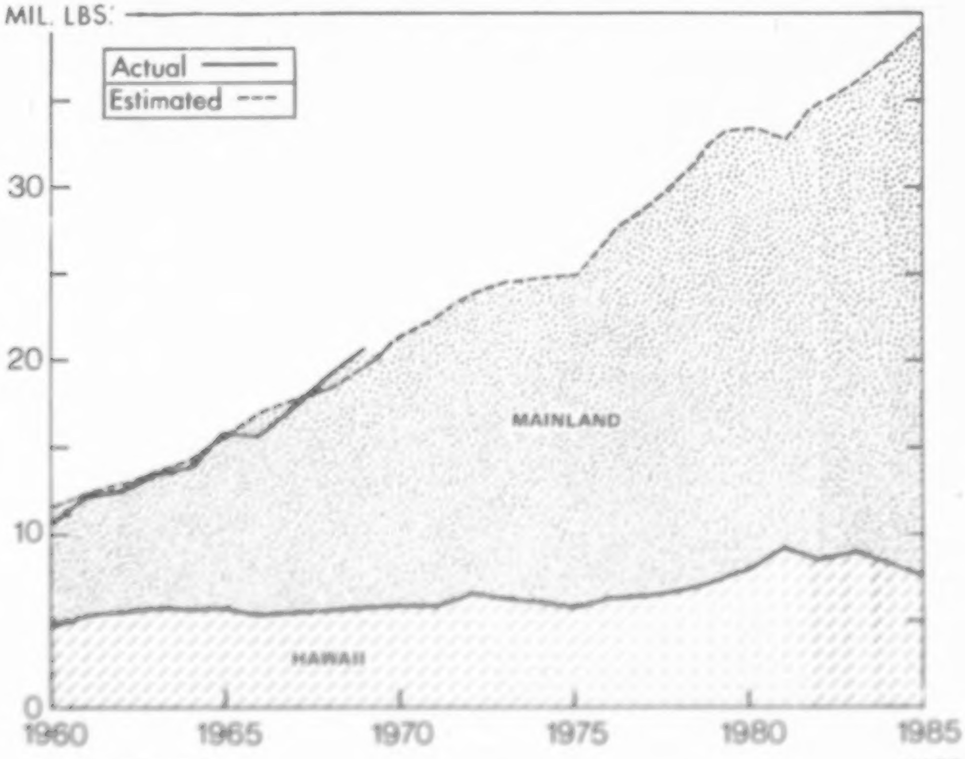
[1] Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] To convert dressed weight to live weight: Divide by 0.75 ; multiply by a factor of 1.3333.
[4] Annual average price is for marketing year December-November.

HOGS AND PIGS: Inventory and disposition, State of Hawaii, 1981-85

Year	Inventory December 1 previous year	Annual pig crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory December 1
	1,000 head						
1981 . . .	57	78	*	69	4	7	55
1982 . . .	55	71	*	67	4	6	49
1983 . . .	49	67	*	59	3	6	48
1984 . . .	48	66	*	60	3	4	47
1985 . . .	47	76	*	68	3	5	55

* = Less than 500 head.

MARKET SUPPLY: Chickens and Broilers, State of Hawaii, 1960-85



*Ready-to-cook weight.

HASS

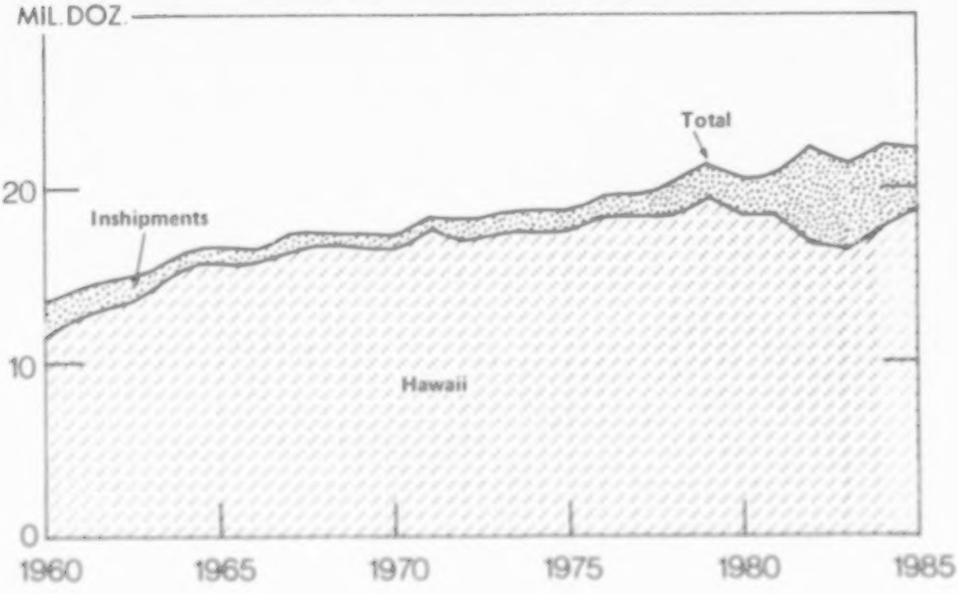
MARKET SUPPLY: Poultry meat, State of Hawaii, 1976-85

Commodity	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
	1,000 pounds (ready-to-cook weight)									
Broilers:										
Inshipments	21,016	22,643	23,682	25,795	25,455	23,850	26,357	26,932	29,785	**31,305**
Hawaii	5,200	5,180	5,816	5,896	6,569	7,673	7,534	8,023	7,346	**6,723**
Total	26,216	27,823	29,498	31,691	32,024	31,523	33,891	34,955	37,131	**38,028**
Other chickens:										
Hawaii	921	978	970	1,240	1,321	1,373	1,037	924	756	**983**
Total chickens:										
Inshipments	21,016	22,643	23,682	25,795	25,455	23,850	26,357	26,932	29,785	**31,305**
Hawaii	6,121	6,158	6,786	7,136	7,890	9,046	8,571	8,947	8,102	**7,706**
Total [1]	27,137	28,801	30,468	32,931	33,345	32,896	34,928	35,879	37,887	**39,011**
Turkeys:										
Inshipments	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NA**

NA = Not available.

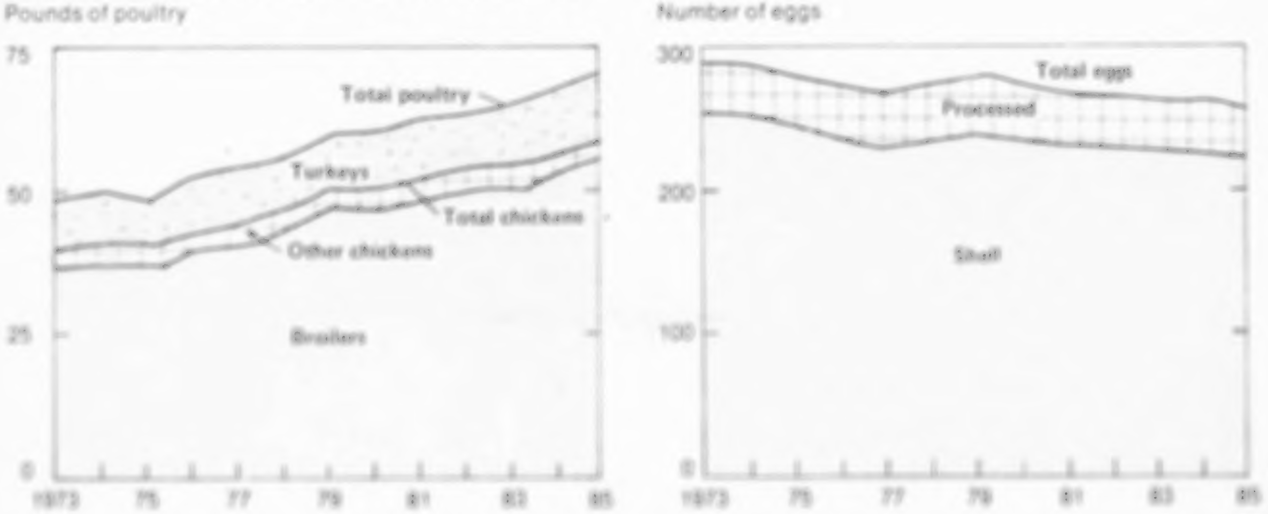
[1] Beginning 1970 total supply was estimated and mainland inshipments derived. See page 104 for detailed explanation of the estimating procedure.

MARKET SUPPLY: Eggs, State of Hawaii, 1960-85



HASS

U.S. Per Capita Consumption of Poultry and Eggs



1984 preliminary. 1985 forecast. Poultry is ready to cook weight. Processed eggs converted to shell equivalents.

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MARKET SUPPLY: Eggs, State of Hawaii, 1981-85

Commodity	1981	1982	1983	1984	1985
	1,000 dozens				
Eggs, shell:					
Inshipments	2,464	5,400	5,158	4,910	3,962
Hawaii	18,442	16,850	16,442	17,475	18,275
Total	20,906	22,250	21,600	22,385	22,237

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

CHICKENS: December 1 inventory by class, by islands, 1981-85

Year	All chickens (excluding broilers)	Number of layers			Non-laying pullets		Other chickens (excluding broilers)
		Hens 1 year +	Pullets under 1 year	Total	Over 3 months	Under 3 months	
	Thousands						
	STATE						
1981	1,242	538	401	939	136	167	*
1982	1,148	589	260	849	115	184	*
1983	1,140	577	352	929	106	105	*
1984	1,195	559	385	944	128	123	*
1985	**1,210**	**609**	**391**	**1,000**	**92**	**118**	*
	HAWAII/KAUAI/MAUI/MOLOKAI [1]						
1981	159	69	57	126	17	16	*
1982	177	83	68	151	12	14	*
1983	179	81	69	150	15	14	*
1984	172	73	83	156	5	11	*
1985	**168**	**80**	**71**	**151**	**6**	**11**	*
	OAHU						
1981	1,083	469	344	813	119	151	*
1982	971	506	192	698	103	170	*
1983	961	496	283	779	91	91	*
1984	1,023	486	302	788	123	112	*
1985	**1,042**	**529**	**320**	**849**	**86**	**107**	*

* = Less than 500.

[1] Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

EGG-TYPE PULLET CHICK PLACEMENTS, State of Hawaii, 1981-85 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 chicks												
1981 ..	94	24	60	51	52	72	19	58	71	81	27	41	650
1982 ..	85	17	83	14	40	92	16	74	54	52	94	20	641
1983 ..	68	25	97	31	17	100	40	74	23	55	27	36	593
1984 ..	80	24	78	10	40	79	29	86	4	79	53	42	604
1985 ..	**71**	**25**	**101**	**0**	**112**	**15**	**33**	**72**	**4**	**117**	**0**	**28**	**578**

[1] Inshipments plus local hatch.

CHICKENS: December 1 number of operations, sales, price, and value, by islands, 1981-85[1]

Year	Operations	Number sold	Pounds sold (live weight)[2]	Average price (live weight)[3]	Value of sales
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1981	55	530	1,961	12.4	243
1982	55	436	1,482	11.3	167
1983	55	377	1,320	13.6	180
1984	55	300	1,080	18.0	194
1985	**55**	**390**	**1,404**	**16.7**	**234**
			HAWAII/KAUAI/MAUI/MOLOKAI[4]		
1981	32	66	240	30.3	73
1982	34	66	232	35.5	82
1983	36	72	243	33.7	82
1984	35	61	214	37.4	80
1985	**35**	**66**	**239**	**36.5**	**87**
			OAHU		
1981	23	464	1,721	9.9	170
1982	21	370	1,250	6.8	85
1983	19	305	1,077	9.1	98
1984	20	239	866	13.2	114
1985	**20**	**324**	**1,165**	**12.6**	**147**

[1] Data are for December-November marketing year.
[2] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.
[3] Equivalent delivered processing plant.
[4] Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

CHICKENS: Slaughter and price, State of Hawaii, 1981-85[1]

Month	Number sold					Pounds sold (live weight)[2]					Average farm price (live weight)[3]				
	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985	1981	1982	1983	1984	1985
	1,000 birds					1,000 pounds					Cents per pound				
December	35	28	33	37	**21**	139	93	110	133	**72**	15.0	14.0	11.5	12.0	**20.0**
January	41	39	20	25	**27**	141	137	74	94	**103**	13.5	9.0	14.0	18.0	**17.0**
February	45	46	55	23	**36**	161	144	192	81	**127**	14.0	9.0	13.5	17.0	**17.0**
March	48	37	36	8	**34**	179	131	125	27	**124**	14.5	12.0	11.5	24.5	**18.0**
April	38	33	32	20	**41**	162	128	104	74	**148**	13.0	14.0	12.5	21.5	**15.5**
May	52	19	24	21	**26**	198	62	119	76	**97**	12.5	20.5	14.5	22.0	**19.5**
June	50	38	44	15	**43**	181	133	140	55	**154**	14.0	13.5	14.5	23.0	**17.0**
July	42	50	37	17	**40**	150	176	133	62	**145**	12.0	9.5	14.5	22.0	**15.0**
August	44	31	28	32	**31**	179	100	101	111	**118**	10.0	11.5	13.0	18.5	**17.5**
September	45	59	25	35	**31**	166	190	87	123	**107**	9.5	10.0	14.5	17.0	**17.0**
October	36	16	15	38	**22**	129	58	53	135	**77**	10.5	12.0	14.5	16.0	**16.0**
November	50	40	18	29	**38**	176	130	62	105	**140**	10.0	9.0	16.5	16.5	**16.0**
Total or average	530	436	377	300	**390**	1,961	1,482	1,320	1,080	**1,404**	12.4	11.3	13.6	18.0	**16.7**

[1] Data are for December-November marketing year.
[2] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.
[3] Equivalent delivered processing plant.

EGGS: December 1 number of operations, number of layers, production, sales, price, and value, by islands, 1981-85[1]

Year	Operations with layers		Average number of layers	Average production per layer	Production[3]	Average price[4]	Value of sales
	Total[2]	100+					
	Number	Number	1,000 birds	Eggs	Million eggs	Cents per dozen	1,000 dollars
				STATE[5]			
1981 . . .	55	24	980	226	221.3	82.2	15,159
1982 . . .	55	21	914	221	202.2	86.3	14,542
1983 . . .	55	19	855	231	197.3	85.4	14,041
1984 . . .	55	21	939	223	209.7	88.9	15,535
1985 . . .	**55**	**20**	**983**	**224**	**220.5**	**76.3**	**14,020**
				HAWAII/KAUAI/MAUI/MOLOKAI[6]			
1981 . . .	32	7	128	223	28.6	97.5	2,322
1982 . . .	34	7	135	208	28.1	101.5	2,382
1983 . . .	36	8	143	225	32.2	98.0	2,629
1984 . . .	35	8	143	224	32.0	102.0	2,726
1985 . . .	**35**	**7**	**145**	**235**	**34.1**	**89.5**	**2,543**
				OAHU			
1981 . . .	23	17	852	226	192.7	80.0	12,837
1982 . . .	21	14	779	223	174.1	84.0	12,160
1983 . . .	19	11	712	232	165.1	83.0	11,412
1984 . . .	20	13	796	223	177.7	86.5	12,809
1985 . . .	**20**	**13**	**838**	**222**	**186.4**	**74.0**	**11,477**

[1] Annual number of layers, egg production, sales, price, and value are a December-November marketing year.
[2] Difference between "Total" and "100+" is operations having 1-99 layers.
[3] Home consumption less than 0.5 million eggs included.
[4] Equivalent delivered processing plant.
[5] Sum of island estimates may not add to State total due to rounding.
[6] Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

EGGS: Number of layers, production, and price, State of Hawaii, 1981-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average [1]
	Average number of layers on hand during month – 1,000 layers												
1981 . . .	1,021	1,023	1,006	980	967	962	973	968	953	950	945	931	980
1982 . . .	924	918	918	932	935	926	915	912	902	889	868	838	914
1983 . . .	839	843	841	854	860	861	858	860	856	855	898	915	855
1984 . . .	908	920	928	944	950	949	958	970	961	934	933	958	939
1985 . . .	**980**	**975**	**961**	**972**	**987**	**991**	**983**	**983**	**993**	**1,003**	**1,005**		**983**
	Egg production – Million eggs [2]												
1981 . . .	19.6	18.2	19.4	18.5	18.8	17.6	18.4	18.9	17.9	18.1	17.4	17.7	221.3
1982 . . .	18.0	16.2	17.1	16.7	18.0	17.1	16.7	16.4	16.2	16.7	15.4	15.5	202.2
1983 . . .	15.8	14.9	17.4	16.6	16.9	16.3	16.8	17.0	16.5	16.9	16.7	17.6	197.3
1984 . . .	17.4	16.4	18.0	17.4	18.2	18.1	18.7	18.2	16.8	16.5	16.4	18.5	209.7
1985 . . .	**18.8**	**16.5**	**18.0**	**17.7**	**18.8**	**18.3**	**18.9**	**19.0**	**18.5**	**19.0**	**18.5**		**220.5**
	Average farm price – Cents per dozen [3]												
1981 . . .	81.5	82.5	83.0	83.5	82.5	81.0	81.0	81.0	81.0	85.0	82.0	84.0	82.2
1982 . . .	84.0	86.5	86.5	86.5	86.5	87.0	89.0	87.5	87.0	84.5	87.5	89.5	86.3
1983 . . .	88.0	87.0	87.0	87.0	86.0	84.5	85.0	84.0	83.5	83.0	81.0	81.0	85.4
1984 . . .	90.0	91.0	91.5	96.5	96.0	91.5	89.5	89.5	84.0	82.0	83.0	87.0	88.9
1985 . . .	**89.0**	**86.0**	**87.5**	**85.0**	**79.5**	**74.0**	**69.5**	**70.5**	**65.0**	**62.0**	**62.5**		**76.3**

[1] Annual data are for a December-November marketing year.
[2] Annual totals may not add due to rounding.
[3] Equivalent delivered processing plant.

EGG-FEED RATIO, State of Hawaii, 1981-85 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Pounds											
1981 . .	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.1	6.8	7.0
1982 . .	7.0	6.9	6.9	6.9	7.1	7.2	7.4	7.4	7.6	7.3	7.8	7.5
1983 . .	7.7	7.6	7.6	7.3	7.2	7.0	7.1	6.7	6.6	6.5	6.1	6.8
1984 . .	6.1	7.1	7.1	7.2	7.6	7.5	7.0	7.0	7.0	6.9	6.8	6.9
1985 . .	**7.4**	**7.2**	**7.3**	**7.1**	**6.6**	**6.4**	**6.0**	**6.1**	**5.7**	**5.5**	**5.6**	**5.6**

[1] Number of pounds of laying feed, equivalent in value to 1 dozen eggs.

BROILER-TYPE CHICK PLACEMENTS, State of Hawaii, 1981-85 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 chicks												
1981 . . .	294	238	250	286	219	251	293	208	250	220	238	297	3,044
1982 . . .	219	335	264	245	240	251	268	216	272	271	244	299	3,124
1983 . . .	214	241	247	253	236	263	324	227	216	219	273	271	2,984
1984 . . .	206	245	213	250	304	230	217	236	206	261	215	217	2,800
1985 . . .	**255**	**191**	**194**	**198**	**224**	**202**	**219**	**187**	**188**	**231**	**205**	**217**	**2,583**

[1] Inshipments plus local hatch.

BROILERS: December 1 number of operatioıs, sales, price, and value, State of Hawaii, 1981-85 [1]

Year	Operations	Number sold[2]	Pounds sold (live weight)[2] [3]	Average price (live weight)[4]	Value of sales[2]
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
1981	10	3,009	10,231	49.5	5,064
1982	10	3,044	10,045	50.5	5,073
1983	9	2,891	10,697	50.0	5,349
1984	8	2,647	9,794	51.0	4,995
1985	7	2,359	8,964	52.0	4,661

[1] Data are for December-November marketing year.
[2] Includes home consumption which is less than 1 percent of producion.
[3] To convert live weight to ready-to-cook weight, multiply by a conersion factor of .75.
[4] Equivalent delivered processing plant.

BROILERS: Slaughter ani price, State of Hawaii, 1981-85 [1]

Month	Number sold[2]					Pounds sold (live weight)[2] [3]					Average farm price (live weight)[4]				
	1981	1982	1983	1984	1985	198	1982	1983	1984	1985	1981	1982	1983	1984	1985
	1,000 birds					1,000 pounds					Cents per pound				
December	239	274	251	202	**252**	73	906	922	719	**947**	49.0	51.0	51.0	50.5	**51.0**
January	259	252	238	258	**181**	87	903	869	966	**634**	48.0	50.0	51.0	51.0	**50.0**
February	236	270	226	211	**182**	79	831	840	822	**695**	48.5	50.5	50.5	51.0	**51.0**
March	253	284	220	240	**196**	81	883	756	906	**752**	48.5	50.5	50.5	51.0	**53.0**
April	289	268	208	226	**171**	1,05	834	780	797	**680**	49.5	50.0	50.5	51.0	**53.5**
May	257	232	235	247	**219**	80	816	819	837	**899**	50.0	51.5	50.5	51.5	**54.5**
June	248	269	355	206	**218**	79	886	1,427	744	**864**	51.0	51.0	51.0	51.5	**53.5**
July	250	227	222	219	**207**	89	752	822	828	**774**	50.5	50.0	50.0	51.5	**50.5**
August	248	235	250	247	**203**	87	764	903	919	**730**	50.0	51.0	51.0	51.0	**51.5**
September	230	258	229	178	**176**	78	854	844	679	**651**	49.5	50.5	50.0	51.0	**51.0**
October	248	256	234	205	**192**	84	849	860	950	**701**	49.5	50.0	51.0	50.5	**51.5**
November	252	219	223	208	**162**	69	745	855	827	**637**	49.5	50.0	42.5	50.5	**52.0**
Total or average . . .	3,009	3,044	2,891	2,647	**2,359**	10,31	10,045	10,697	9,794	**8,964**	49.5	50.5	50.0	51.0	**52.0**

[1] Data are for December-November marketing year.
[2] Includes home consumption which is less than 1 percent of producion.
[3] To convert live weight to ready-to-cook weight, multiply by a conersion factor of .75.
[4] Equivalent delivered processing plant.

BROILER-FEED RAIO, State of Hawaii, 1981-85 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Pounds											
1981 . .	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.5
1982 . .	3.4	3.2	3.2	3.2	3.3	3.3	3.3	3.5	3.4	3.3	3.5	3.6
1983 . .	3.5	3.5	3.4	3.3	3.3	3.3	3.3	3.2	3.0	3.0	2.5	3.1
1984 . .	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.4	3.5	3.6	3.6	3.6
1985 . .	3.6	3.6	3.8	3.8	3.9	3.9	3.7	3.8	3.7	3.8	3.9	3.8

[1] Number of pounds of broiler grower equal in value to 1 pound broiler live weight.

SEED CORN: Number of farms, acreage used for crop, acreage harvested, outshipments, and value, State of Hawaii, 1981-85

Crop year November-June	Farms	Acreage used for crop	Acreage harvested			Outshipments of seed	Value
			Nursery	Observation	Seed increase		
	Number	Acres	Acres	Acres	Acres	1,000 pounds	1,000 dollars
1981-82	5	600	250	135	215	280	2,990
1982-83	5	630	275	165	190	240	3,000
1983-84	6	730	340	90	300	560	4,170
1984-85	7	870	395	145	330	500	5,150
1985-86	7	870	405	155	310	500	5,120

FEED CROPS: Acreage, production, sales, and value, State of Hawaii, 1981-85 [1]

Year	Acreage harvested	Production	
		Quantity	Value [2]
	Acres	1,000 tons	1,000 dollars
1981	6,495	90.8	2,117
1982	8,705	35.4	1,376
1983	9,347	45.7	2,107
1984	8,993	20.9	912
1985	5,542	30.6	3,028

[1] Includes grains, grass and legume crops, and pineapple green chop.
[2] Includes value of production used on farm where produced.

FEED PRICES: Average price paid by farmers for feed, State of Hawaii, 1981-85

Kind of feed	Unit	1981	1982	1983	1984	1985
		Dollars				
Chick starter	Ton	275	262	279	280	248
Broiler grower	Ton	305	302	312	308	276
Laying feed	Ton	250	239	244	253	233
Dairy feed, 20-percent protein	Ton	240	236	245	247	226
Rolled barley	Ton	208	194	196	202	175
Rolled corn	Ton	211	195	217	220	196
Alfalfa cubes [1]	Ton	183	181	190	187	184
Pineapple bran	Ton	131	141	140	145	143
Cottonseed meal, 41 percent protein	100 pounds	16.30	16.20	17.60	17.50	16.50
Hog feed, 16-18 percent protein	100 pounds	13.60	13.80	15.80	15.70	15.30
Beef cattle feed, 18-20 percent protein	100 pounds	12.20	13.30	14.50	15.50	14.00
Stock salt	100 pounds	5.60	7.60	8.20	8.30	8.80

[1] Beginning in 1983 price is for alfalfa pellets.

FEED PRICES: Average price paid by farmers for feed, State of Hawaii, 1983-85

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Dollars per ton											
	CHICK STARTER											
1983 . .	260	260	265	275	275	275	275	280	295	295	295	295
1984 . .	295	290	290	295	290	290	290	285	270	255	255	255
1985 . .	**255**	**255**	**255**	**255**	**255**	**245**	**245**	**245**	**245**	**240**	**240**	**240**
	BROILER GROWER											
1983 . .	290	290	295	305	305	305	305	315	330	335	335	335
1984 . .	335	320	320	320	320	320	320	305	295	285	280	280
1985 . .	**280**	**280**	**280**	**280**	**280**	**275**	**275**	**275**	**275**	**270**	**270**	**270**
	LAYING FEED											
1983 . .	230	230	230	240	240	240	240	250	255	255	265	255
1984 . .	265	255	255	255	255	255	260	255	255	245	240	240
1985 . .	**240**	**240**	**240**	**240**	**240**	**230**	**230**	**230**	**230**	**225**	**225**	**225**
	DAIRY FEED, 20-PERCENT PROTEIN											
1983 . .	240	235	235	240	245	245	245	245	250	250	255	255
1984 . .	265	255	255	260	245	245	250	250	235	230	235	235
1985 . .	**230**	**235**	**230**	**235**	**230**	**225**	**225**	**225**	**220**	**220**	**225**	**215**
	ROLLED BARLEY											
1983 . .	186	190	190	192	200	203	190	190	197	204	202	204
1984 . .	208	208	215	205	217	214	204	200	189	185	185	190
1985 . .	**183**	**182**	**182**	**182**	**181**	**173**	**173**	**173**	**173**	**167**	**166**	**163**
	ROLLED CORN											
1983 . .	194	200	207	214	221	221	231	228	234	224	219	215
1984 . .	219	219	225	220	225	226	229	228	226	210	210	200
1985 . .	**201**	**201**	**201**	**201**	**201**	**198**	**197**	**197**	**196**	**188**	**185**	**187**
	ALFALFA PELLETS											
1983 . .	197	190	193	190	190	195	191	191	188	185	184	182
1984 . .	182	181	182	186	184	188	192	189	189	185	195	190
1985 . .	**190**	**190**	**190**	**180**	**180**	**180**	**184**	**178**	**182**	**185**	**185**	**178**
	PINEAPPLE BRAN											
1983 . .	140	140	140	140	140	140	140	140	140	140	140	140
1984 . .	140	140	140	140	147	147	147	147	147	147	147	147
1985 . .	**147**	**147**	**147**	**147**	**147**	**140**	**140**	**140**	**140**	**140**	**140**	**140**
	COTTONSEED MEAL, 41-PERCENT PROTEIN – 100 pounds											
1983 . .	17.00	17.00	17.00	17.00	17.50	17.50	17.50	18.50	18.00	18.00	18.00	18.00
1984 . .	18.00	18.00	18.00	18.00	18.00	18.00	17.00	17.00	17.00	17.00	17.00	17.00
1985 . .	**17.00**	**17.00**	**17.00**	**17.00**	**17.00**	**16.50**	**16.50**	**16.50**	**16.00**	**16.00**	**16.00**	**16.00**

FEED: Inshipments from all sources, State of Hawaii, 1981-85

Commodity	1981	1982	1983	1984	1985
			Tons		
Feed Grains					
Barley	20,506	4,008	[1]37,701	[1]50,781	[1]41,524
Corn	37,688	62,109	37,772	35,125	32,459
Mixed	[2]	[2]	37	66	232
Oats	186	186	1,342	759	663
Sorghum	2,454	168	211	214	213
Wheat	6,183	1,073	12,734	1,501	3,300
Total	67,017	67,544	89,797	88,446	78,391
Mixed Feeds					
Calf	366	317	371	411	598
Cattle	7,129	3,450	3,196	5,381	3,346
Dairy	9,497	10,270	10,305	5,380	3,032
Horse	1,347	1,018	1,245	1,686	2,452
Pigeon	537	496	516	604	673
Poultry (including scratch)	6,762	6,084	5,613	5,178	5,364
Rabbit	30	18	18	30	34
Swine	3,608	3,223	3,266	3,096	2,860
Other mixed	395	115	9	35	94
Total	29,671	24,991	24,539	21,801	18,453
Alfalfa Products					
Cubes, pellets, and hay	22,713	26,056	30,192	[1]32,279	[1]24,087
Protein Feeds					
Copra products	[3]1,883	[3]1,595	[3]1,969	[3]1,376	[3]972
Cottonseed products	14,401	12,778	[1]9,355	[1]9,099	[1]8,316
Cottonseed, whole	4,362	5,472	6,009	[1]6,946	5,496
Meat and bone meal	[1]1,516	[1]1,713	[1]1,399	1,351	1,353
Rape seed products				[2]511	0
Soybean meal	8,308	8,181	[1]7,792	10,281	12,320
Other protein	103	167	0	0	[1]169
Total	30,573	29,906	26,524	29,564	28,626
Other Feedstuff					
Almond hulls and pellets	3,123	4,891	4,944	4,602	5,793
Beet pulp and pellets	802	1,980	2,677	301	1,792
Cassava (Tapioca) pellets					[2]6,629
Corn gluten					618
Cottonseed hulls and pellets	1,300	2,808	1,560	[1]1,334	427
Grain screenings and pellets	13,234	2,818	2,939	4,626	1,784
Grass forage				1,473	0
Rye grass screenings				769	240
Miscellaneous/unspecified	3,577	6,852	9,823	6,439	5,369
Total	22,036	19,349	21,943	19,524	28,602
Total Feed Inshipments	172,010	167,846	192,995	191,614	178,159

[1] Includes foreign.
[2] Previously included under Miscellaneous/unspecified.
[3] Foreign.

Source: Market News Service, Hawaii Department of Agriculture.

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1981-85

Item	1981	1982	1983	1984	1985
			Dollars		
Building Materials:					
Framing lumber, 2" x 4", fir, standard and better, per 1,000 bd. ft.	570.00	530.00	584.00	609.00	590.00
Boards, per 1,000 bd. ft.:					
Rough, for farm fences and construction	750.00	745.00	800.00	770.00	825.00
Rough, redwood	1,075.00	1,080.00	1,160.00	1,090.00	1,000.00
Dressed, 1", pine, S_4S, standard and better or No. 2 and better	730.00	725.00	780.00	850.00	900.00
Roofing:					
Asphalt shingles, 3 in 1 mineral surface, approximately 240 lbs., per square	54.00	52.00	53.00	53.00	51.00
Galvanized steel, 26 gauge, per 100 square feet	105.00	98.00	97.00	97.00	80.00
Plywood, exterior glue, ½", C-D-X, per 4' x 8' sheet	16.00	14.50	15.40	15.00	14.50
Concrete blocks, 8" x 8" x 16", per 100	122.00	127.00	126.00	136.00	127.00
Portland cement, per 94 lbs. net, each	8.70	9.40	9.30	9.10	9.10
Equipment and Supplies:					
Iron pipe, galvanized:					
1½" I. D., per foot	1.83	1.90	1.90	1.90	1.85
1¼" I. D., per foot	1.57	1.59	1.59	1.60	1.55
PVC pipe, per lin. foot:					
1", I. D.	.44	.47	.47	.45	.40
2", I. D.	.83	.83	.84	.85	.82
Barbed wire, galvanized, 12½-gauge, 4-point, per 80-rod spool	51.00	51.50	58.50	57.50	61.00
Stock fence (woven wire), 6" stay wire spacing, 12½-gauge wire, 32" high, per 20-rod roll	105.00	125.00	126.00	126.00	127.00
Steel post, line fence, each	4.25	4.95	4.50	4.50	4.55
Polypropylene shade cloth, per square foot:					
73%, 10' width	.17	.18	.18	.19	.19
78%, 20' width	.19	.21	.21	.23	.23
Hand sprayer, pressure, 3-4 gallon capacity, each	42.00	42.00	47.00	45.00	43.00
Knapsack, sprayer, pressure, stainless steel, 5 gallon, each	145.00	149.00	154.00	153.00	160.00
Rope, polypropylene, ½", per 100 feet	22.00	21.00	20.00	17.60	17.60
Nails, 8d, common, per pound	1.05	1.20	1.13	1.17	1.10
Fertilizer Materials:					
Concentrated superphosphate, 44-46 percent P_2O_5, per ton	340.00	340.00	340.00	340.00	345.00
Sulphate of ammonia, per ton	230.00	238.00	225.00	220.00	235.00
Urea (45-46% N), per ton	310.00	330.00	335.00	325.00	350.00
Mixed Fertilizers:					
18-46-0, per ton	395.00	395.00	395.00	395.00	400.00

Continued

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1981-85 -- Continued

Item	1981	1982	1983	1984	1985
	Dollars				
Petroleum Products, Motor Supplies and Services:					
Gasoline, per gallon (including Federal, State, and local taxes):					
Price, service station (unleaded)	1.59	1.56	1.51	1.51	1.53
Price, bulk delivery (leaded, regular)	1.31	1.26	1.19	1.20	1.17
Diesel fuel, per gallon	1.21	1.18	1.21	1.20	1.18
Motor oil, per gallon:					
Regular (non-detergent)	3.75	3.55	4.05	3.95	3.90
Heavy duty (detergent)	3.75	3.80	4.40	4.25	3.95
All-weather (high detergent)	4.05	4.30	5.05	4.80	4.15
Auto tires (tubeless):					
Radial, steel-belted, size P195/75R14, ER78-14, each	86.00	83.00	82.00	80.00	75.00
Bias-belted, size E78-14, each	63.00	56.00	59.00	50.00	48.00
Truck tires, each:					
7.00-15, 6-ply	77.00	76.00	81.00	75.00	70.00
Storage batteries, auto and light commercial 12 volt, cranking performance rating (CPR) (BCI STD):					
CPR 220-310 amps	58.00	58.00	62.00	59.00	57.00
CPR 315-500 amps	75.00	75.00	76.00	78.00	74.00

FERTILIZER: Consumption by kind and primary nutrients, State of Hawaii, year ended June 30, 1981-85

Year	Mixtures	Direct application materials		Total	Primary nutrients		
		Primary nutrients	Secondary and micro-nutrients		N	Available P_2O_5	K_2O
	Tons						
1981 . .	102,546	46,863	728	150,137	18,907	13,629	21,963
1982 . .	100,797	54,627	1,015	156,439	22,086	11,010	24,134
1983 . .	97,360	40,114	869	138,343	18,698	12,651	19,557
1984 . .	83,544	44,108	696	128,348	16,026	10,318	17,042
1985 . .	**94,659**	**56,309**	**987**	**151,955**	**19,830**	**11,182**	**20,179**

FERTILIZER: Consumption chemical nitrogen materials, State of Hawaii, year ended June 30, 1981-85

Year	Ammonia		Ammonium		Nitrogen solution	Sodium nitrate	Urea	Other	Secondary and micro-nutrients
	Anhydrous	Aqua	Nitrate	Sulfate					
	Tons								
1981 . .	0	2,413	0	1,231	10,115	3	3,618	104	728
1982 . .	0	382	0	785	18,279	0	4,035	1,952	1,015
1983 . .	0	1,401	0	776	11,086	3	3,685	104	869
1984 . .	20	623	1	482	11,128	2	2,723	142	696
1985 . .	**0**	**757**	**1**	**463**	**12,624**	**0**	**2,353**	**7,943**	**987**

FERTILIZER: Consumption phosphate and potash materials, State of Hawaii, year ended June 30, 1981-85

Year	Phosphate					Potash		Natural organics
	Superphosphates		Phosphate rock[1]	Ammonium phosphates	Other	Chlorides 50% - 62%	Other	
	22% and under	Over 22%						
	Tons							
1981 . .	0	4,419	327	0	7,789	1,153	15,691	0
1982 . .	0	614	188	33	9,901	2,931	15,527	0
1983 . .	0	2,107	88	0	7,325	698	12,841	0
1984 . .	0	436	86	0	9,492	242	18,731	0
1985 . .	**0**	**421**	**238**	**0**	**11,872**	**370**	**19,267**	**0**

[1] Includes colloidal phosphate.

AGRICULTURAL EMPLOYMENT: Workers on farms, State of Hawaii, annual averages, 1981-85[1]

Year	Total farm employment			Hired workers by type of farm		
	Self employed farm operators	Unpaid family members	Hired workers	Sugar	Pineapple	Other
1981 . .	3,100	900	10,500	4,875	1,975	3,650
1982 . .	2,600	1,300	13,000	4,900	3,750	4,350
1983 . .	2,500	1,500	13,000	4,850	3,250	4,600
1984 . .	2,200	1,300	11,800	4,650	2,550	4,700
1985 . .	2,200	1,200	10,600	4,150	1,950	4,400

[1] Due to program changes annual averages are not comparable. Average for 1981 is of January and April surveys; 1982 and 1983, for July only; 1984 July and October; and 1985, average of January, April, July and October surveys.

AGRICULTURAL EMPLOYMENT: Total workers on farms, State of Hawaii, 1985[1]

Island	Self employed farm operators				Unpaid workers[2]				Hired workers			
	Jan.	Apr.	Jul.	Oct.	Jan.	Apr.	Jul.	Oct.	Jan.	Apr.	Jul.	Oct.
Hawaii	1,400	1,250	1,500	1,400	800	700	900	750	3,550	3,200	3,650	3,650
Kauai	150	150	150	150	50	50	100	50	1,150	1,200	1,400	1,400
Maui/Molokai/ Lanai	250	250	300	250	150	100	200	100	2,500	2,850	3,700	2,800
Oahu	450	450	450	400	200	200	350	300	2,650	2,700	2,900	2,800
State[3]	2,000	2,000	2,400	2,200	1,000	1,000	1,600	1,200	10,000	10,000	11,700	10,650

[1] Estimates for week which includes 12th of each survey month. [2] Includes family members and others working 15 or more hours per week. [3] Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Hired workers by type of farm, State of Hawaii, 1985[1]

Island	Sugar				Pineapple				Other			
	Jan.	Apr.	Jul.	Oct.	Jan.	Apr.	Jul.	Oct.	Jan.	Apr.	Jul.	Oct.
Hawaii	1,250	1,200	1,250	1,200	--	--	--	--	2,300	2,000	2,400	2,450
Kauai	1,000	1,100	1,150	1,200	--	--	--	--	150	100	250	200
Maui/Molokai/ Lanai	1,150	1,150	1,100	1,150	700	1,100	1,800	900	650	600	750	700
Oahu	600	600	700	700	750	800	900	850	1,300	1,300	1,300	1,250
State[2]	3,950	4,050	4,200	4,300	1,450	1,900	2,750	1,750	4,400	4,000	4,700	4,600

-- = Negligible or not applicable. [1] Estimates for week which includes 12th of each survey month. [2] Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Wage rates by method of pay and type of work, State of Hawaii, 1985[1]

Type of work performed	Hawaii				Annual average		
	Jan.	Apr.	Jul.	Oct.	Hawaii	California	U. S.
	Dollars/hour						
All hired farm workers	7.44	7.63	7.31	7.46	7.45	5.47	4.42
Field workers	6.36	6.72	6.31	6.68	6.51	5.12	4.30
Livestock workers	6.59	[2]	[2]	5.91	[2]	5.13	4.05
Supervisors	11.11	10.97	11.55	11.22	11.22	8.16	6.95
Others	8.19	[2]	[2]	8.06	[2]	5.96	4.46

[1] Perquisites such as room and board, housing, etc., are provided some workers in all categories, except where footnoted otherwise, in addition to wage rates shown. [2] Insufficient data.

DEFINITION OF TERMS

AGRICULTURE entails all operations performed on a "farm" in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant or packinghouse door or other receivers' establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally the shipper's warehouse.

FARM is a place with estimated (or expected) annual sales of agricultural products of at least $1,000.

CROP PRODUCTION is the estimated amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.

ACREAGE IN CROP is the total acreage standing in a specific crop regardless of age or condition unless it has been declared abandoned by the operator.

ACREAGE HARVESTED is the total area harvested or partially harvested during the reporting period. A permanent or semi-permanent planting that was harvested for only a portion of the year is counted in its entirety. Acreage lost before maturity due to natural or economic factors is not included. Acreage harvested and planted repeatedly during the year is counted each time.

YIELD is the average production per acre of merchantable quality harvested and sold or utilized. This is derived by dividing total production by harvested acres.

LIVESTOCK OPERATION is defined as a place that has one or more head of the species on hand at any time during the year. Does not have to meet the definition of a farm.

LIVESTOCK PRODUCTION is the estimated amount of livestock and livestock products sold. Includes allowance for amount used on farms where produced.

FARM PRICE is a computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of "agriculture". See "agriculture" for definition of pricing point.

MARKET SUPPLY includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded) plus products shipped in for civilian use. Direct inshipments to the Armed Forces are excluded.

SAMPLING METHODS AND ESTIMATION

The Hawaii Agricultural Reporting Service uses a variety of sampling techniques to produce current agricultural statistics about crops, livestock, prices, farm labor, and other information relating to the agricultural economy.

Data is collected, summarized and estimates are prepared. These estimates then pass through the Crop Reporting Board of the U. S. Department of Agriculture where, for major items, Hawaii estimates become part of National totals and enter the official data base for agriculture. National and State estimates are published according to a schedule set one year in advance.

The Hawaii Agricultural Reporting Service conducts many of its surveys by virtually complete **ENUMERATION** of certain parts of the population. This is unusual compared to procedures in other states but is feasible in Hawaii due to the relatively small size of certain categories of the farm universe or the extreme concentration of ownership. Vegetable and poultry surveys are among those where complete enumeration is the usual procedure.

LIST SAMPLING is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list frame which can never be perfect. In Hawaii, cattle and hog surveys are examples of stratified list sample designs.

AREA FRAME SAMPLING can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.

MULTIPLE-FRAME SAMPLING is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates and allows measurement of the sampling error. This survey method is currently used for agricultural employment and wage rate surveys.

OBJECTIVE YIELD SURVEYS provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields. Currently, this method is used for forecasting papaya yield four months in advance of harvest. Research is underway to determine the feasibility of using this methodology on other crops.

CHECK DATA is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, public tax records, and inspections. Unloads at Honolulu and wholesale prices as reported by the Market News Service, are an important check data source. Also, grower organizations, such as the Hawaiian Sugar Planters' Association, provide an efficient means of obtaining information concerning sugar production.

HAWAII
AGRICULTURAL
STATISTICS
SERVICE

REPORTS ISSUED

Report	Frequency
CROP RELEASES	
Avocados	Annual (May)
Bananas - Acreage	Annual (March)
Bananas - Production & Price	Monthly
Coffee	Bi-annual (Jan., Aug.)
Fresh Fruit	Annual (May)
Ginger Root	Annual (Oct.)
Guavas	Annual (May)
Macadamia Nuts	Bi-annual (Jan., July)
Papayas - Acreage, Production & Price	Monthly
Pineapple - Acreage & Production	Annual (Feb.)
Processed Fruit	Annual (May)
Sugar - Acreage & Production	Aug. - Nov.
Taro	Annual (Jan.)
Vegetables	Annual (April)
Vegetables - Acreage, Production & Price	Monthly
Vegetables - Expected Honolulu Vegetable Supply	Weekly
Vegetables Processed - Quantity & Price	Annual (March)
FLOWERS AND NURSERY PRODUCTS	
Anthuriums - Exports	Monthly
Dendrobium Orchids	Annual (May)
Flowers and Nursery Products	Annual (May)
Out-of-State Sales	Annual (May)
Poinsettias	Bi-annual (May, Oct.)
LIVESTOCK RELEASES	
Cattle - Jan. 1, Inventory & Calf Crop	Annual (Feb.)
Cattle - Slaughter and Pasture Condition	Monthly
Chickens & Eggs	Monthly
Hogs - Dec. 1, Inventory & Pig Crop	Annual (Jan.)
Hogs - Slaughter	Monthly
Honey	Annual (May)
Milk - Production, Cow Numbers & Prices	Monthly
WEEKLY CROP WEATHER	Weekly
OTHER PUBLICATIONS	
Agricultural Labor & Wage Rates	Quarterly (Feb., May, Aug., Nov.)
Prices Paid - Feed	Quarterly (Feb., May, Aug., Nov.)
STATISTICS OF HAWAIIAN AGRICULTURE	Annual (July)

The above reports may be obtained by contacting the Hawaii Agricultural Statistics Service, P. O. Box 22159, Honolulu, HI 96822-0159 (Office - 1428 S. King St., Honolulu, HI).

EXPLANATION OF GRAPHS AND TABLES ON PAGES 77 and 83

BEEF-VEAL SUPPLY: Historical beef-veal supply data consists of all Hawaii production, carcass weight basis, foreign imports, converted to carcass weight equivalent and mainland inshipments, weight-as-shipped. Foreign and mainland inshipments of processed beef are excluded. Also, no adjustment is made for changes in inventory. Estimated supplies are derived as a function of U. S. per capita consumption of beef and veal, and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1970 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable with which the supply equation was estimated. The resulting equation indicated Hawaii beef supply with a correlation coefficient of .98.

PORK SUPPLY: All historical and estimated pork supply data involved dressed weight of pork with the exception of mainland inshipments which, at times, includes live hogs shipped into Hawaii for slaughter. Foreign and mainland inshipments of processed pork are excluded. Estimated supplies are derived as a function of U. S. per capita consumption of pork and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable in estimating a market supply equation. The resulting equation indicated Hawaii pork supply with a correlation coefficient of .90.

CHICKEN-BROILER SUPPLY: All historical chicken-broiler poundage data, as well as estimated supplies, are expressed on a ready-to-cook basis. Estimated supplies are derived as a function of U. S. per capita consumption and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on U. S. mainland inshipments and Hawaii production was totaled to serve as the dependent variable in estimating the supply equation. The resulting equation indicated Hawaii chicken-broiler supply with a correlation coefficient of .99.

Revisions to prior years are made when final figures on population and per capita consumption are available.

PHOTOGRAPHY ACKNOWLEDGEMENTS

Cover photo: Waimea Falls Park - Floral display, courtesy of the Market Development Branch, Department of Agriculture.

General summary: Pineapple field on Oahu, courtesy of John S. Sisson of Demographics Consulting, page 2.

Crop summary: Watermelons on Molokai, HASS staff, page 14.

Floriculture feature: Various components of the floriculture industry on Oahu and Molokai, HASS staff, pages 20 and 21.

Potted flowering plants on Maui, courtesy of the Market Development Branch, Department of Agriculture, page 22.

Dendrobium sprays on Oahu, HASS staff, pages 22 and 25.

Livestock summary: Egg laying operation on Oahu, HASS staff, page 69.